

First Annual Report

OF THE

Municipal Commission

OF

HERKIMER, N. Y.

APRIL 1, 1896.

BOARD OF COMMISSIONERS:

C. R. SNELL, President.

E. W. SLUYTER, Clerk and Superintendent.

M. L. HAGADORN, Treasurer.

C. R. SNELL,	Term expires March 31, 1899
HENRY CHURCHILL,	" " " " 1898
LOUIS TURNIER,	" " " " 1897
THOMAS H. MANION,	" " " " 1896

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1895/96-

1900/01

Report of the Municipal Commission.

To the Honorable Board of Trustees of Herkimer, N. Y. :

We present herewith what we term our First Annual Report, although it covers a period of only eleven and one-half months, from April 15th, 1895, the date of our assuming office, to April 1st, 1896. We begin our year on April 1st, as that is the date of a semi-annual collection of water rates. and makes a good starting point.

We have endeavored, in making out this report, to present such figures and specific information as shall give the public a good understanding of what we are doing in their behalf, of what the property in our charge consists of, and the cost of maintaining each department. A system of book-keeping has been adopted, which permits an accurate showing of the several maintenance accounts as well as a general balance sheet, record of inventories, etc.

It is perhaps not necessary for us to say that we have used the utmost care in preparing the statements herewith presented. Our "general expense account," which includes superintendent's salary, has been divided in the proportion of three-tenths each to sewer and water, two-tenths to light, and one-tenth each to police and fire accounts. We regard this an equitable apportionment.

We are aware, in view of the acrimonious discussion which has for a long time been carried on in public prints and pamphlet form between the advocates of public and private ownership of lighting plants, that in making up our cost of lighting we are treading on dangerous ground. There has been a manifest disposition on the part of claimants of both beliefs to twist facts and misplace figures. We have only to say for ourselves, in this connection, that we have endeavored to run our lights as economically as we considered consistent with good service, to keep our accounts correctly and let the resultant cost appear as it would, our aim being neither to prove or disprove anybody's pet theory, but to picket the figures down to the facts and not allow them to stray into the wilderness.

As to our work for the last year we may say generally that we have done a good deal toward improving the grounds, as well as the inter-

ior of the pumping station, and purpose to continue this line of work until the community shall take pride in the appearance of the whole plant. There was added during the last summer a six inch deep well, at some cost, it is true, but, as will be seen by the Superintendent's report, it was a saving institution during the record-breaking dry spell of last year. It has been deemed advisable by the Commission to discard the smaller of the two steam boilers and replace it with a large one. We are now negotiating for its purchase. With the present arrangement it is impossible to supply sufficient steam in case of an accident to the large boiler, or during the process of cleaning. Some extensions have been made to the pipe line; more are being demanded and must be supplied to meet the growth of the village. In the use of water our citizens have not been unduly extravagant, as appears from the per capita report, but we cannot refrain from impressing upon consumers the necessity of great care in preventing waste and leakages. We have the refusal of the triangular piece of ground of about four acres north of and adjoining the present grounds, and shall purchase it if offered at a reasonable price, since we consider our system incomplete without it. The question of increased supply of water is receiving due consideration, but nothing definite has yet been determined upon.

A careful statement of the condition of the sewer system will be found in the Superintendent's report.

The police and fire department are working with smoothness and efficiency. Since the resignation of Officer Hilts it has been thought best to maintain a force of three men only, and thus far the reduction has not been detrimental to good service.

On June 1, 1896, we began running the electric lights all night, changing from the former system of 12 o'clock lighting. The cost has been necessarily somewhat increased, but has been warranted we think, by the satisfactory results. Six new arc lamps have been added to the system, placed at such points as seemed most to need them. The project of introducing incandescent lighting for commercial uses has occupied the attention of the Commission to a considerable extent, and while we have been unable to arrive at a conclusion which permits us to advocate it at present, we are still open to conviction. Our position is that we should be well assured of financial success before committing the community to the expenditure of such a sum as will be required to do the work well. We think a commercial arc system which

will pay can be added at small cost, and this is being fully considered.

In conclusion we wish to say that our policy has been one of "economical liberality," and we trust that it will eventually prove, if it has not already done so, satisfactory to our friends, the taxpayers.

Signed,

C. R. SNEEL,
HENRY CHURCHILL,
LOUIS TURNIER,
THOS. H. MANION.

Report of Superintendent.

*To the Honorable Municipal Commission of the Village of
Herkimer :*

I have the honor of submitting herewith a resume of the work for the past year :

WATER.

The water furnished has been at all times pure and wholesome. Although the rainfall was less than for any season for the past twenty years, we have been able to furnish a sufficient supply for domestic, manufacturing, sprinkling and sewer flushing purposes, and also to keep on hand our tank supply of 530,000 gallons for fire use. This I consider was due in a great measure to the efforts made last year to furnish an additional water supply by driving a six inch well. This well was driven to the depth of 190 feet and although it has carried us through the past extremely dry season, I am satisfied that efforts for a greater supply should not at this time be discontinued.

Having closely observed the results of pumping from 34 two inch driven wells, I am convinced that they are not economical on account of taking too large quantities of aerated water, thereby causing the pumps to run at a great loss, and this is especially found in case of low water when the level is necessarily brought below the perforations in

the pipes thus taking air in large quantities and forcing shutting down of the pumps until such a time as the water has again raised above them.

EXTENSIONS.

Extensions have been made during the year to distribution system as follows :

528 feet of 1 1/2 inch galvanized iron pipe on South Pine street with crosses plugged for each lot.

600 feet 4 inch cast iron pipe on King street, connected across the hydraulic canal.

900 feet same size on Steel street, connecting with 6 inch main on South Washington street.

A hydrant was placed at the corner of King and Steele streets, also one on Steele street about 450 feet from Washington street east.

The distribution system has run through the year with but three breaks and those only of minor importance. One was the blowing out of a tap on Eastern avenue. One of a lead joint on Perry street. The third a break of a 4 inch cast iron pipe leading from the main to a hydrant on Main street. On account of the small number of valves placed in the main (a lack which I find throughout the whole system) to repair this last mentioned break it was necessary to shut the water off from Albany to Mary street for nine hours.

I would most respectfully recommend that the matter of valves be investigated and new ones placed at such points as may be necessary to save shutting off water from large sections. This is a present necessity as breaks may at any time occur.

HYDRANTS.

There have been no frozen hydrants during the year.

I should recommend the placing of two new hydrants located as follows :

One on Eastern avenue. The distance between the present hydrants on this street is 900 feet. As we lose 13 pounds pressure at nozzle for every 100 feet of 2 1/2 inch hose it will readily be seen that should a fire occur near the center of this street or the alley leading from it, which is situated near the center, the loss of pressure by friction would be great.

On Mohawk street there is a hydrant in front of the residence of

Edward Reardon. The next west is front of the vacant lots, formerly occupied by the burned Park House hotel, a distance of about 1225 feet. As there are hydrants at the northern ends of First and Second avenues, a new one placed on Mohawk street between these avenues would be accessible from all points. I can but feel on this subject that a dollar expended in placing new hydrants is two saved in fire hose, to say nothing of the loss of pressure.

PUMPING PLANT.

One Vacuum Pump has been to the shop and thoroughly repaired ; all others have continued in good order and each is in first-class condition for the work required of it.

BOILERS.

The large, or 100 H. P. boiler, has been in constant use during the year. Some repairs are needed to arch, but as we are obliged, under existing circumstances, to use it night and day repairs cannot at present be made.

The small, or 50 H. P. boiler is in fair order, but as the steam required for either engine or pump is more than can be furnished by it, it necessarily is of no use to the present plant.

CONNECTIONS.

There are now 697 service connections, an increase during the year of 60.

RECEIPTS.

The receipts for water rents for the year ending March 31, 1896, were \$6,577.41. In 1895 the receipts were \$6,610.46, which includes \$823.41 received from the A. & St. L. R. Co.

The railroad having discontinued the use of water from the village, nothing has been received from the road for the past year. Deducting the amount which they paid in 1894-5 and which was contained in the 1895 report, the receipts for 1896 show an increase of \$790.36 over the previous year.

SEWERS.

The sewer system has required but little repairs, but is one of the departments that needs the greatest amount of close and careful attention on the part of all who are in any way connected with its care and management.

I have for the past year watched it closely and up to the time of high water in March, was satisfied it was doing all that could be expected of it.

At that time and when there was no surface water running, the pump at the sewer station was started and run continuously for twelve hours and although it worked well and up to its capacity, I found we were unable to change the level of the water in the receiving well, which level was the same as the water in the river.

I was then convinced that there was at that time some defect in the pipe line, either broken pipe or open joints which admitted ground water into the system in such quantities that it was impossible to lower the level although the outlet was closed by the gate. Since that time the pump has been twice started but with no better results.

The water from Lake, Westlake, Stuben, Dorf, Caroline, Church, German, and the greater portion of Washington, Main and Prospect, drain through Bellinger street. This street is laid with 12 inch pipe on a very slight grade and is too small to do the work required of it as large quantities of surface water are taken from catch basins situated on the before mentioned streets.

During the past month of extremely high water, although water has risen in the man holes, numerous tests have been made and at all times there has been found a strong current in the sewer, proving conclusively that there were no stoppages.

We find the sewers are sometimes clogged and great annoyance with consequent labor is involved by the large quantities of rubbish which are washed into them by every rainfall.

The practice of many of our citizens of using the catch basins as a dumping ground and the tendency which is prevalent of throwing papers into the street cannot be too strongly condemned for the reason given above, besides others that are too plain to need especial mention. I think steps should be taken by our village board to correct this uncleanly public habit.

I should at this time call the attention of your honorable body to the fact that too close inspection and too careful testing of any sewer connections cannot be required, and I should most respectfully recommend that on and after May 15th no connections be made with the public sewer until all house connections have been tested with a water test and found perfect.

LIGHT.

On assuming charge of the electric light plant April 15, I found a general lack of attention in both line and lamp work had caused great injury to the whole system and brought this department into ill repute with the community at large.

During the past season the entire line was thoroughly repaired.

Under the system of police inspection and daily reports of lamps not burning, inaugurated by you, together with the report kept in the office, which made it obligatory upon the electrician to write opposite each lamp reported out the cause, has made it an incentive for all connected with this department to give it better and more careful attention and I feel safe to day in saying that from one of the poorest lighted towns in Central New York one year ago, to-day we compare favorably with the best.

New lamps have been placed as follows: At St. L. crossing on German street, Westlake avenue, Main street between Court and German, corner Main and Mohawk, Eastern avenue between Washington and King, and corner King and Steele.

STATION EQUIPMENT.

For nearly ten months no expense was incurred for repairs to either engine or dynamos.

Since that time it has been necessary to purchase a new drive belt for one dynamo to replace the one that had been in use since plant first started.

A defective thread in the cross-head of the engine caused the principal breakage for the year, and to this may be charged the absence of light for three nights.

When we consider the speed at which this engine is running, viz: 250 revolutions per minute, I am sure that all must be satisfied with the work it has done. To insure any better results it would be necessary to have a duplicate plant, which at this time I should not recommend, for the reason that should an incandescent plant be determined upon, the class of engine required for such work might make extensive changes necessary.

FIRE.

On account of lightning striking the church spire twice last summer and because of a break in the lightning rod at that time the fire alarm

machinery on each of these occasions was injured and consequently out of order. Although repairs were made as soon as possible these breaks were cause of some annoyance and one or two false alarms.

The fire losses for the year have been very light and for this we have to thank the fire companies of our village who we have found ever prompt to respond to the alarm, and by their promptness they have merited the approval of the community and made the proportion of losses to the number of fires remarkably light.

POLICE.

The efficiency of the police department can be judged by the freedom of our village from crime. The work performed by the force appears in the report of Chief Manion elsewhere.

Thanking you for the uniform kindness and confidence reposed in me,

I am yours respectfully,

E. W. SLUYTER, *Superintendent and Clerk.*

Balance Sheet.

ASSETS.

WATER SYSTEM.

Cost, per report April 15, 1895.....	\$66,436 70	
Added since—Schedule A.....	<u>1,822 36</u>	\$68,259 06

LIGHT SYSTEM.

Cost, per report April 15, 1895.....	16,428 03	
Added—Schedule A.....	<u>430 50</u>	16,858 53

SEWER SYSTEM.

Cost, per report April 15, 1895.....	57,787 41	
Added since—Schedule C.....	<u>137 30</u>	57,924 71

FIRE SYSTEM.

Cost, per report April 15, 1895.....	4,400 00	
Added since—Schedule D.....	<u>69 78</u>	4,469 78

SUNDRY INVENTORIES.

Light maintenance, Schedule E.....	381	17	
Water " " F.....	468	60	
Sewer " " G.....	237	43	
Police " " H.....	130	50	
Fire " " I.....	3,369	30	
General expense account, Schedule J.....	364	30	
Soft coal account, Schedule K.....	23	30	4,974 60

OUTSTANDING ACCOUNTS.

Due from Herkimer County.....	8	80	
" Town of Herkimer.....	114	45	
" Sundry persons, back water tax..	82	46	205 71
Cash in hands of Treasurer	9	83	
" " Superintendant.....	3	41	13 24

\$152,705 63

LIABILITIES.

BONDED DEBT.

Light bonds outstanding.....	\$14,000	00	
Water " "	57,000	00	
*Sewer " "	55,500	00	\$126,500 00
Interest accrued and not due on light bonds	466	67	
" " " " water "	1,523	96	
" " " " sewer "	386	25	2,376 88

FLOATING DEBT.

Due E. B. Mitchell, police justice.....	126	66	
" George T. Burns, coal.....	43	93	
" M. L. Hagadorn, treasurer.....	95	83	
" W. P. Munson, rent.....	60	00	
" W. H. Prowse, rent.....	75	00	401 42
Surplus, being excess of assets over liabilities.....			23,427 33

\$152,705 63

* In reporting the outstanding Sewer Bonds April 15, 1885, the amount was given as \$55,000; although we used great care at the time in ascertaining the correct amount this error crept in.

Treasurer's Statement.

CASH RECEIPTS.

From Light and Water Commissioners.....	\$	415	99
" Sewer Commissioners.....		26	20
" Light maintenance, account sale of materials, \$20.50, Deimel & Schermer, \$28.00.....		48	50

From Water maintenance.....	4,709 15
“ Sewer “ sale materials.....	105 52
“ Police “	741 89
“ Fire “	25 00
“ Note discounted at bank.....	1,727 60
“ Village trustees.....	10,977 50
“ Miscellaneous.....	3 65
	<hr/>
	\$18,781 00

CASH DISBURSEMENTS.

For additions to systems.....	\$ 2,459 94
“ maintenance accounts.....	12,620 15
“ notes at bank.....	1,750 00
“ old floating debt and arrearage account.....	1,941 08
Cash on hand.....	9 83
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	\$18,781 00

M. L. HAGADORN, *Treasurer.*

Light Maintenance Account.

Operating cost for 11 1-2 months, April 15, 1895, to April 1, 1896. There are now 60 lamps in the circuit, besides the one in the Opera House. Six of these were lately placed and at such times that they average as one lamp for one year, so we figure 55 lamps in estimating cost per arc.

Superintendent.....	\$	172 50
Treasurer.....		19 17
Labor, Charles Munson.....	\$ 660 00	
“ Thomas J. Bredt.....	494 00	
“ William Crego.....	25 00	
“ John Kelley.....	150 00	
“ Henry Bowman.....	41 50	
Sundry.....	7 99	1,378 49
Coal.....		830 51
Carbons.....		233 75
Repairs, lamps and line.....	\$ 169 75	
“ engine.....	78 45	
“ belting.....	57 15	305 35

Oil.....	80 78
Waste.....	5 67
Insurance —fire and boiler.....	67 12
Office rent and fuel.....	16 93
Interest on borrowed money.....	3 75
Water for boiler and cleaning.....	42 20
Miscellaneous.....	5 41

Total..... \$3,161 63

Less received from Deimel & Schermer for Opera House
lamp. Deducted because we do not count this
lamp in figuring cost per arc light..... 28 00

Actual operating expenses..... \$3,133 63
Interest on outstanding bonds for 11 1 2 months..... 536 67

\$3,670 30

We deduce from the above the following :

Actual operating expense 11 1-2 months..... 3,133 63
Add one twenty-third to equal 12 months..... 136 24

Total for 12 months on above proportion \$3,269 87

We formulate as a matter of general interest three propositions :

First Proposition—Actual operating ex-
penses, 55 lamps..... \$3,269 87 or per lamp \$59 45

Second Proposition—Actual operating ex-
penses, 55 lamps..... \$3,269 87
Add one year's interest on bonds..... 560 00

Operating expenses and interest..... \$3,829 87 or per lamp \$69 63

Third Proposition—Operating expenses
and interest for 55 lamps..... 3,829 87
Add 5 p. c. depreciation on plant,
\$16,858 53..... 842 93

Operating exp., int. and depreciation.. \$4,672 80 or per lamp \$84 96

In comparing Municipal plants with those of private ownership it is usual to estimate the amount of annual taxes which the latter are required to pay. If we make this addition it will increase the last amount by \$2.00 or a total of \$86.96.

Actual hours light furnished 11 1 2 months..... 2,816
Adding 1-23 to equal 12 months gives..... 2,938

Candle power per hour furnished for one cent :

First proposition as above.....	988
Second " "	844
Third " "	692

Cost per lamp per hour :

First proposition, cents.....	2. ⁰² ₁₀₀
Second " "	2. ³⁷ ₁₀₀
Third " "	2. ⁸⁹ ₁₀₀

Lbs. of coal consumed, 11 1-2 months,..... 704,367

Or for one year..... 734,992

No. of miles of street lighted..... 11

Plant consists of :—

One horizontal 6x16 boiler with necessary pumps and fixtures, used in connection with water system.

One 100 h. p. Ball tandem compound engine.

Two Edison 50 arc dynamos.

Necessary switchboards, lightning arresters, etc.

Twelve T. & H. double carbon lamps.

Twenty-three Edison single carbon lamps.

Twenty six Daylight single carbon lamps.

Two hundred and fifty eight poles.

Ten mast arms.

Water Maintenance Account.

FOR ELEVEN AND A HALF MONTHS.

Superintendent's salary.....		\$ 258 75
Treasurer's salary.....		28 75
Labor, T. J. Bredt.....	\$ 95 00	
" William Crego.....	300 00	
" J. Kelley.....	60 00	
" Charles Munson.....	30 00	485 00
Hardware and general expense.....		196 53
Oil, packing and waste.....		90 52
Repairs, pipe line.....	\$ 121 30	
" pumps and boilers.....	78 71	
" tank.....	5 00	205 01
Coal.....		1,156 60
Books and stationery.....		76 48
Water guage.....		14 46
Postage.....		11 26

Office rent and fuel.....	25 40
Insurance.....	41 40
Miscellaneous.....	41 14
Total operating expenses.....	\$2,631 30
Interest on outstanding bonds, 11 1-2 months.....	1,911 87
	<hr/>
	\$4,543 17

RECEIPTS—CREDITED.

*From Light and Water Commissioners... \$	415 99	
From water rents. cash.....	\$4,709 15	
“ “ “ due.....	82 46	4,791 61
Charged sewer maintenance.....	245 51	
“ light “	42 20	
“ fire “	10 00	
“ sale meter.....	8 75	
“ “ old pipe.....	40 53	5,554 59
Balance credit.....		<hr/>
		\$1,011 42

Lbs. coal consumed.....	999,833
Lbs. coal per 1000 gallons water.....	8. ³⁸ / ₁₀₀
Total gallons of water pumped.....	141,510,229
Less 20 per cent. for wastage between pump and consumer.....	28,302,046
Net.....	<hr/>
	113,208 183
Hours actually pumped.....	3,926
First Proposition—Actual operating expense.....	\$ 2,631 30
Second “ —With interest on bonds added...	4,543 17
Third “ —Interest and 5 p. c. depreciation on \$68,305.99, eleven and a half months.....	7,816 17
Cost 1000 gals. water, first proposition, in cents.....	2. ³² / ₁₀₀
“ “ “ “ second “ “	4. ¹⁰ / ₁₀₀
“ “ “ “ third “ “	6. ⁹⁰ / ₁₀₀

System consists of : —

- One Knowles Compound Duplex pump, 11X18 1-2X12X12.
- One “ “ “ “ 12X18 1-2X10X12.
- Two “ Vacuum pumps.
- One “ Feed water pump.

*This represents, of course, the money turned over by Light and Water Commissioners to us, and not the total taken in by them between April 1 and 15, 1895.

One Horizontal tubular boiler, 6x16, with necessary fixtures, used in connection with light system.

There is also one 50 h. p. boiler which we consider of no especial value.

Eight inch pipe	8,320 feet
Six " "	10,000 "
Four " "	27,000 "
Three " "	400 "
One and one half inch pipe.....	528 "

Total pipe in streets.....	46,248 feet
Eight inch valves.....	10
Six " "	10
Four " "	41
Total valves.....	61

FIGURES SHOWING PER CAPITA CONSUMPTION, RECEIPTS PER 1000 GALLONS, &c.

No. of net gallons delivered as above.....	113,208,183
Less used by sewer system.....	1,455,100
" " " light "	422,000
	2,879,100

Total gallons consumed.....	110,331,083
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Estimating population at 5000 equals 63 1 2 gals. per day per capita.

No. of taps.....	697
Gallons average per tap for 11 1 2 months.....	158,3946
" " " " per day.....	453 ³ ₁₀
Meters in use.....	26
Gals. water metered from Jan. 1, '95, to Jan. 1, '96...	10,237,24
Received for same.....	\$1,074.6

Average receipt for 1000 gals. metered water, 10⁵₁₀.

Gallons of unmetered water for 11 1 2 months.....	100,093,837
Estimated pumped April 1, '95, to April 15, '95.....	4,570,000
Total for year.....	104,663,837

Receipt for same as follows :

By old board and expended by them	\$1,369 81	
" " " turned over to M. C....	415 99	\$1,785 80
By M. C. April 15, '95, to April 1, '96, cash,	4,709 15	
Less for metered water as above.....	1,074 67	3,634 48
Due from sundry persons.....		82 46
Total received for 104,663,837 gals. unmetered water,		\$5,502 74
Average receipts for 1000 gals. 5 1 4 cents.		

Hydrants belonging to system as follows :

1. North side of German street, opposite Main.
2. Main, near residence of B. Patrick.
3. Main, opposite Court street.
4. Corner Main and Merry streets.
5. Main, opposite the Bank.
6. Corner Main and Liberty streets.
7. Corner Main and Albany streets.
8. Main, opposite Mohawk street.
9. Main street, opposite George.
10. South side Smith street, opposite Main.
11. Corner Washington and Steele streets.
12. Corner Washington and Smith streets.
13. Corner of Washington street and Perry Lane.
14. Washington, opposite Aaron Snell's.
15. Corner Washington and Albany streets.
16. Washington, opposite Greene street.
17. Washington, opposite Mary street.
18. Corner Washington and Church streets.
19. Corner German and Prospect streets.
20. Corner German and Washington streets.
21. Corner prospect and Church streets.
22. Prospect street, opposite Quackenbush's shop.
23. North side of Albany, on Prospect.
24. Mohawk street, near residence of Casper Gloo.
25. Mohawk street, between 2d and 3d avenues.
26. Mohawk street, near Park House.
27. Second avenue, at north end.
28. First avenue, opposite David Nichols' residence.
29. Bellinger street, near Central Railroad.
30. Corner Bellinger avenue and Bellinger street.
31. Corner Bellinger and Church streets.
32. Corner Bellinger and German streets.
33. German street, near H. H. Bellinger's residence.
34. German street, near cheese factory.
35. Corner German street and Dorf lane.
36. Dorf lane near paper mill.
37. Corner Dorf Lane at paper mill.
38. Steuben road near Wm. Smith's residence.
39. Corner German street and Eastlake avenue.
40. Corner German and Lake streets.
41. Lake street, opposite Orrin Cole's residence.
42. Albany street, west side hydraulic canal.
43. Albany street, opposite King street.
44. Corner Eastern avenue and King street.
45. Eastern avenue, near Charles Ives' residence.

46. Smith avenue, near Charles Bates' house.
47. Eureka avenue, at end of line of pipe.
48. Corner Smith and King streets.
49. Corner Smith and Pine streets.
50. Corner George and William streets.
51. Corner Smith and Bellinger streets.
52. Eastern avenue, at end of pipe, west of hydraulic.
53. Westlake street.
54. German street, near Horrock's factory.
55. Church street, near Graham Bellinger's residence.
56. Church street, near H. H. Batchelder's residence.
57. Caroline street, north of Church.
58. Deimel street, north end.
59. Corner of King and Perry streets.
60. Corner of King and Steele streets.
61. Steele street, between Washington and King.
62. Stimson street, end of line.

Private hydrants as follows :

- Standard Furniture Company, 1.
- Deimel & Snell lumber yard, 1.
- Morris Mark Mill, 3.
- Public water fountain, 1.

Sewer Maintenance Account.

Superintendent's salary.....	\$ 258 75
Treasurer's salary.....	28 75
Labor on man-holes and catch basins.....	62 32
Changing man-holes and flush tanks, Mohawk street...	46 98
Stationery	8 24
Grading and seeding sewer lot.....	26 25
Repairs at pump station.....	1 33
Insurance " "	12 01
Office rent and fuel.....	25 39
Interest on note.....	5 63
Water for flushing, credited water maintenance account.	245 51
	721 16
Less credited miscellaneous.....	79
Net operating cost.....	\$ 720 37
Add eleven and one-half months interest on bonds....	2,220 94
Total.....	\$2,941 31

Police Maintenance Account.

CHARGES.

Superintendent's salary.....		\$ 86 25
Treasurer's salary.....		9 58
Police salaries, J. T. Manion, chief.....	\$ 690 00	
“ “ George W. Hilts.....	449 01	
“ “ W. F. Perry.....	575 00	
“ “ L. H. Lacy.....	575 00	
“ “ P. G. Klem.....	45 97	
“ “ Specials.....	32 18	2,367 16
<hr/>		
E. B. Mitchell, police justice.....		479 16
Uniforms.....		60 85
Rent, police headquarters.....		50 00
Fuel, “ “.....		16 10
General expenses.....		2 50
Furniture.....		1 50
Stationery.....		2 58
Office rent and fuel, Municipal office.....		8 47
Postage.....		42
Interest on notes.....		1 87
Miscellaneous.....		4 82
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Total expenditures.....		\$3,091 26

CREDITS.

Received from Chief.....cash	\$ 3 00	
“ “ Colored camp meeting. “	10 00	
“ “ E. B. Mitchell..... “	219 05	
“ “ Town of Herkimer old account Nov. 10, '94, to April 15, '95, cash.....	\$ 55 10	
Balance due on same.....	114 45	
Received new account April 15, '95 to April 1, '96, cash.....	383 12	552 67
<hr/>		
Received from County of Herki- mer, cash.....	\$ 71.62	
Charged to County.....	8.80	80 42
<hr/>		
Total receipts.....	865 14	
Less expenses of Chief.....	69 70	
<hr/>		
Net receipts.....		795 44
<hr/>		
Net operating cost.....		\$2,295 82

Fire Maintenance Account.

Superintendent's salary.....	\$ 86 25
Treasurer's salary.....	9 58
Fire expenses :	
Handling carts and trucks at fires.....	\$ 67 50
Cleaning and drying hose by firemen...	123 89
	<hr/> \$191 39
General expense and repairs to fire alarm occasioned by lightning and supplies for batteries.....	179 13
O. H. Perry, chief, 11 1-2 months.....	\$ 95 84
B. D. Small, electrician, 11 1-2 months.....	70 84
Rents for companies and hose carts.....	288 12
Gas.....	20 20
Hose nozzles and jackets.....	99 50
Repairs to engine house and lightning rod.....	5 98
Shoveling snow.....	2 55
Fuel furnished companies.....	45 50
Stationery.....	1 58
Rent of office and fuel for Commission.....	8 46
Interest on note.....	1 88
Miscellaneous.....	117 03
Water in exchange for use of bell M. E. church.....	10 00
	<hr/> \$1,233 83
Less received rent engine house for election.....	25 00
	<hr/> \$1,208 83

Schedules.

A.

CHARGES TO WATER SYSTEM FOR ADDITIONS.

For 6 in. and 4 1-2 in. well and connections with system	\$ 817 41
Corporation stops and labor making taps.....	38 45
Sewer at pump house.....	23 50
500 feet 1 1-2 inch galvanized pipe laid in Pine street.	103 37
1500 feet 4 inch cast pipe with two hydrants and three valves laid in King and Steele streets.....	648 29
Grading and clearing pump house lot (part).....	49 46
Water closet and connection at pump house (part)....	10 38
Damper regulator at pump house (part).....	75 00
Meters.....	56 50
	<hr/> \$1,822 30

SCHEDULE B.

CHARGED TO LIGHT SYSTEM, FOR ADDITIONS.

Nine new electric lamps.....	\$	148	46
Grading lot at station (part).....		49	46
Hardware		1	42
Exhaust head for engine.....		78	05
New mast, arms and wire.....		37	29
Labor placing new lamps.....		30	45
Water closet at station (part).....		10	37
Damper regulator (part).....		75	00
	\$	430	50

SCHEDULE C.

CHARGED TO SEWER SYSTEM FOR ADDITIONS.

Two new manholes and three catchbasins.....	137	30
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SCHEDULE D.

CHARGED TO FIRE SYSTEM FOR ADDITIONS.

Fire alarm pole.....	2	63
New hose house, Eastern avenue.....	67	15
	\$	69 78

SCHEDULE E.

LIGHT MAINTENANCE. MATERIALS, ETC., ON HAND.

3,000 carbons.....	\$30	00	75 glass insulators.....	\$	3	00
80 insulator pins.	2	50	Two steel bars.....		2	00
Two brackets.....		10	Lot guy wire.....		2	00
One pair climbers.....	1	50	One wire cable.....		3	00
“ pole, yoke and pike..	2	00	One small wrench.....		40	
“ pole Y.....		75	Two switches.....		50	
“ set pulley blocks and			34 incandescent lamps...		3	40
rope.....	2	50	Two lbs. graphite.....		40	
“ cylinder engine ring.	2	00	One pair shears.....		50	
“ vise.....	1	50	“ filter		5	00
Five pair magnets.....	15	00	“ pair pliers.....		40	
Two arc cut outs.....	7	50	“ set brass oilers.....		2	50
Sundry lamp repairs.....	12	00	“ copper oiler.....		1	50
Four globes.....	3	00	“ pail.....		10	
One stove and pipe.....	5	00	“ spring cot.....		2	00
“ cupboard.....	5	00	12 insulators.		35	
“ lot insulated wire....	3	00	20 coach screws.....		50	
Five series lamps.....	20	00	Two pair rubber gloves...		3	00
One workbench.....	1	00	One set brushes.....		4	50
“ ladder.....	2	50	13 poles.....		34	19
“ reel for wire.....	2	50	One 40 foot pole.....		5	00
“ hood, complete.....	4	50	Two magneto bells.....		15	00

FIRST ANNUAL REPORT OF THE

Seven cedar poles.....	18	37	1 2 general inventory "L"	96	58
Unexpired insurance.....	53	13			
Total.....				\$381	17

SCHEDULE F.

WATER MAINTENANCE. INVENTORY MATERIALS, ETC., ON HAND.

One extension for hydrant.\$	3	50	" " 10 in.....	\$	4	50
Two meters 1-2 inch.....	9	50	Two T's 6x4.....	10	80	
" pecks and handles...	2	00	Four " 8x4.....	27	84	
Four shovels.....	1	60	Six sleeves 8 inch.....	13	28	
Lot hydrant seats.....	3	00	Three sleeves 6 inch.....	5	06	
One wrench.....	1	25	Seven sleeves 4 inch.....	8	30	
" hand made hydrant wrench.....	1	00	Five plugs 8 ".....	3	82	
" steam pump.....	35	00	Two plugs 6 ".....		90	
Six cakes soap.....	25		One increaser 6x8.....	2	50	
One can lye.....	10		" " 8x4.....	2	50	
" oil cup.....	1	75	" reducer ".....	2	50	
" lot pipe and fittings..	1	00	Two Ys 8x8.....	11	92	
Five straightway valves, 2 inch.....	12	50	One Y 8x4.....	5	96	
25 lbs. lead.....	75		One wrot coupling 10 inch		45	
One lot valve springs....	24	00	Two " " 6 ".....		80	
Three valve wrenches....	4	00	14½ " pipe 10 ".....	14	89	
One water guage.....	14	40	One length pipe 8 ".....	10	31	
Two pieces 4 in. cast pipe.	4	53	11 feet pipe 8 ".....	9	45	
41 pieces 6 in. " ".....	78	78	One Tee 8 ".....	6	26	
One elbow 6 in.....	2	38	" malleable union 4 ".....	1	50	
Total.....			Unexpired insurance....	27	16	
			½ general inventory "L".	96	66	
						\$468 80

SCHEDULE G.

SEWER MAINTENANCE. INVENTORY MATERIALS, ETC., ON HAND.

Two lanterns.....\$	80	Two oil cans.....\$	15
“ picks and handles... 2	00	One lot packing.....	50
One shovel.....	40	250 brick..... 2	00
½ bbl. cement.....	50	188 ft. 20-inch sewer pipe.	84 70
One mortar hoe..... 1	00	184 “ 18 “ “ “ .	62 56
“ steel tape..... 3	00	2 pieces 12-inch “ “ .	34
1 ½ tons coal..... 4	50	35 Ys 12 inch.....	27 30
One broom.....	25	33 “ 8 “ 13	37
“ shovel.....	25	2 “ 20 “ 4	03
“ wrench 45		One inceaser 8x10.....	50
“ piece pipe..... 10		“ reducer 8x10.....	50
“ pail..... 10		Two bends 20 inch.....	3 00
“ lot kindling wood... 1	00	Six Tees 12x12.....	5 40
Fire tools..... 2	25	Two “ 10x20 4	05

Quantity manhole gaskets.	1 00	Unexpired insurance.	10 92
One stepladder.	50		
Total.			\$237 43

SCHEDULE H.

POLICE MAINTENANCE. INVENTORY MATERIALS, ETC., ON HAND.

Four overcoats.	\$54 00	Four twisters.	\$ 2 00
Three dress coats.	3 00	Three police clubs	1 00
Four summer "	20 00	One desk.	2 00
Four helmets.	1 50	"	19 00
150 police manuals.	5 00	" chair.	5 00
Five call whistles.	2 50	Two "	1 00
Seven badges.	5 00	One record book.	2 00
Three pairs handcuffs.	7 50		
Total.			\$130 50

SCHEDULE I.

FIRE MAINTENANCE. INVENTORY MATERIAL, ETC., ON HAND.

Two galvanized iron pails \$ 1 50	One back pressure valve. \$ 50 00
Three paper " 1 05	Four hydrant wrenches. . 2 00
100 hose washers. 5 00	One " " . . . 1 00
One chamois skin. 50	15 cast iron wrenches. . . 3 00
" steam fire engine. . . 1400 00	Three Ys. 2 25
" hook & ladder truck. 550 00	One shut-off valve. 5 00
1800 feet hose. 450 00	" globe stove. 2 00
Three hose carts. 44 00	" stove and heater. . . 30 00
One hose sleigh. 5 00	36 parade suits. 380 00
" hand cart. 5 00	34 working suits. 306 00
Six nozzles. 56 00	3 Cooper hose jackets. . 70 00
Total.	\$3369 30

SCHEDULE J.

GENERAL EXPENSE ACCOUNT. INVENTORY.

One ledger.	\$ 2 50	One Welsbach burner.	\$ 2 00
Six copy books.	7 00	" stove and fittings, re-	
One desk.	20 00	pair shop.	5 00
" door mat.	1 25	" stove and fitt'gs office	25 00
Building for offices and re-		" chair	5 00
pair shop.	181 00	" towel rack.	25
Plumbing in building.	100 00	Four towels.	30
One desk.	10 00	Books and stationery.	5 00
Total.			\$364 30

SCHEDULE K.

INVENTORY, SOFT COAL.

Ten tons at \$2.33.	\$23 30
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SCHEDULE L.

GENERAL INVENTORY.

One pair telephones.	\$25 00	One steel handle scoop...	\$ 1 25
Quantity waste.....	75	“ wood “ “	60
10 lbs. ring packing.....	7 50	“ peck and handle.....	75
10 lbs. sheet rubber.....	3 00	Two square pointed shovels	80
One table.....	5 00	One axe.....	50
Five cuspidors.....	2 00	Five grate bars.....	10 30
“ chairs.....	2 00	One steel barrow.....	10 00
Two 1 bbl. oil cans.....	12 00	“ step ladder.....	50
One pipe wrench.....	2 50	50 feet 3-4 inch hose.....	4 00
“ “ “	1 75	One patent flue cleaner...	15 00
Two line step ladders....	60	“ “ “ scraper...	1 50
One vise.....	8 00	Soda ash.....	5 30
“ screw wrench, 12....	1 00	Fire clay.....	15
“ “ “ 10....	75	One oil pump.....	1 00
“ 8 day clock.....	5 00	“ machine hammer....	1 00
Fire tools.....	2 50	30 gals. cylinder oil.....	10 50
One mortar hoe.....	1 25	110 gals. engine oil.....	14 30
“ garden rake.....	40	Unexpired insurance	29 79
“ hoisting tackle.....	5 00		
Total.....			\$193 24

Report of Chief of Police.

Showing number of arrests for the year, character of offence charged and disposition of prisoner.

OFFENCE CHARGED.		SENTENCE.	
Disorderly.....	140	Suspended.....	90
Seduction.....	1	Paid fine.....	31
Petit larceny.....	8	Charge withdrawn.....	20
Assault, 3d degree.....	16	County house.....	3
Violation of excise law...	4	Discharged	20
Malicious mischief.....	2	Albany penitentiary.....	5
Violation village ordinance	4	County jail.....	19
Grand larceny.....	1	House of refuge.....	1
Vagrancy.....	8	Gave bonds.....	3
Bastardy.....	1	Industrial school.....	2
Cruelty to animals.....	1		
Jumping freight train....	1		194
Defrauding boarding house	4		
Exposure of person.....	1		
Violation Sec. 671 P. C..	2		

ITEMIZED RECEIPTS FOR WATER RENTS FROM

APRIL 16, 1895, TO APRIL 1, 1896.

F. H. Gray.....	\$ 6 00	Geo. Volk.....	\$ 2 50
H. A. Deimel.....	1 83	Mrs. Butterfield.....	4 20
Geo. H. Gray.....	2 25	Rev. J. H. Halpin.....	2 50
Peter Witherstine.....	1 65	Geo. Weber.....	8 90
S. Davenport.....	2 25	G. G. Harter.....	4 50
P. Fagan.....	6 00	Five per cent. collected.....	8 32
H. A. Deimel.....	9 50	A. J. Smith.....	4 72
Peter Krug.....	4 00	Joe Golden.....	1 50
Jas. Kershaw.....	4 50	Jerry Murray.....	2 00
Geo. Golden.....	1 50	J. H. Nelson.....	11 25
D. R. Church.....	4 00	J. H. Nelson.....	30 50
A. Schrader.....	1 85	H. Edick.....	4 50
Wm. Lyons.....	12 00	Christ Church.....	7 41
H. Trenbeth.....	6 50	Dorothy Beals.....	2 50
F. Trenbeth.....	2 00	C. C. Witherstine.....	12 00
J. F. Sheaf.....	2 00	J. H. Nelson.....	1 50
John Roff.....	2 00	Mrs. H. Darling.....	8 00
Geo. Volk.....	2 00	J. H. Huyck.....	2 50
H. Sarsman.....	3 00	Herkimer Paper Co.....	18 20
A. Wilbur.....	85	Gem Knitting Mill.....	17 08
H. H. Longstaff.....	5 50	Standard Furniture Co.....	17 75
S. W. Simpson.....	7 50	Mrs. A. S. Brush.....	13 00
Jacob Truax.....	3 50	Mrs. Goldsmith.....	2 50
Geo. Hall.....	3 93	Manion & Fick.....	2 50
J. H. Shaper.....	9 00	Dr. Harter.....	2 50
Casper Haller.....	4 10	S. W. Edwards.....	4 00
Fox Estate.....	2 50	H. G. Munger.....	25
J. P. Harter.....	4 72	J. M. Ausman.....	2 50
F. H. Hall.....	2 00	Mary A. Harter.....	2 83
Griswold & Lankton.....	3 06	H. M. Quackenbush.....	10 73
T. Aberline.....	2 10	Deimel & Snell.....	2 50
Hon. R. Earl.....	10 10	H. Sarsman.....	10 00
T. W. Grosvenor.....	25	Geo. W. Nellis.....	16 34
Mrs. M. Paul.....	2 00	Geo. Drury.....	5 45
J. V. Hemstreet.....	3 50	Herkimer Gas Co.....	30 51
Wm. Palmer.....	2 35	H. Edick.....	2 50
H. Sarsman.....	3 00	J. H. Ausman.....	2 50
Mrs. Taylor.....	1 00	Universalist Church.....	2 50
C. C. Pierce.....	2 50	Griswold & Lankton.....	4 78
J. H. Nelson.....	27 29	Geo. Greene.....	8 40
Ida Shaper.....	2 00	John Metzler.....	1 25
W. H. Williams.....	3 50	H. P. Witherstine.....	5 25
Geo. Rich.....	2 75	C. C. Baum.....	2 50
Mrs. Chatfield.....	2 75	M. Mark.....	2 50
T. Cox.....	1 00	M. E. Brush.....	5 00
Ringling Bros. Circus.....	6 00	F. H. Smith.....	1 00
Isaac Harter.....	4 00	Mrs. Munroe.....	5 25
Geo. Hesler.....	3 83	D. Kill.....	2 00
John Willis.....	2 00	J. W. Baker.....	18 70
J. H. Ausman.....	2 00	Mrs. Hodge.....	1 00
J. W. Baker.....	14 48	J. H. Nelson.....	1 00
Thos. Carr.....	4 00	Dr. C. Kay.....	1 85
Thos. Cox.....	3 00	C. A. Fox.....	4 00
Geo. W. Greene.....	25 00	Geo. Hall.....	10 00
Wm. S. Bates.....	2 65	Metzler & Heinzelman.....	1 00
A. R. Addy.....	1 50	Mrs. Judd.....	65
W. H. Gay.....	2 50	J. H. Metzger.....	5 50
Ed. Montgomery.....	7 25	Perry & Moore.....	2 00
Mrs. Zintzmaster.....	5 00	F. Wolf.....	9 00
W. H. Williams.....	6 13	N. Orjel.....	6 50
A. W. Palmer.....	1 00	John Getley.....	10 50
John Schrott.....	3 50	Geo. Rich.....	2 75
C. D. West.....	4 50	B. Hennesy.....	2 00
C. C. Cook.....	4 50	Mrs. Monroe.....	2 00
A. W. Haslehurst and others.....	1 00	Wm. Filhour.....	6 00
A. E. Geirsbach.....	22 55	Geo. Drury.....	4 54
Wm. Smith.....	4 00	Wm. Helmer.....	6 50
L. A. Lawton.....	5 50	Levi Small.....	4 00
Mrs. M. Powell.....	2 50	Herkimer & Mohawk RR.....	5 00
F. Helenack.....	2 50	John Willis.....	4 50

W. E. Rouse.....	\$ 2 00	B. Patrick	\$ 6 00
P. J. Garigan	2 00	F. Stolpe.....	9 00
E. L. Merryman.....	4 50	C. B. Perry	4 50
Wm. Burrill.....	11 00	M. Foley	2 00
H. S. Barnes	5 50	Geo. Benson.....	2 00
D. C. Demster	2 00	Five per cent.....	3 19
A. T. Smith.....	4 00	L. A. Lawton	2 00
Mrs. E. H. Stacy.....	10 00	Deimel & Snell	6 00
Herkimer County Jail	1 50	J. Henderson	4 50
Geo. H. Bunce.....	2 00	Fox Estate	3 50
Ed Witherstine	2 00	Jerry Murray.....	4 50
Fox Estate.....	4 50	Philip Harter.....	12 00
Ed Reardon.....	8 50	N. P. Mount	4 50
Jas. Marrion.....	4 00	Catharine Grogan	4 00
Russell Allen	2 00	M. Foley.....	3 00
H. C. Harter.....	4 50	M. J. Hodge.....	4 00
C. Gschibay.....	5 50	Mrs. T. Getman	3 50
A. C. Devendorf	2 00	Wm. C. Rasbach.....	2 50
A. C. Devendorf.....	8 00	J. Zintzmaster	5 25
W. P. Munson.....	15 30	Wm. Tabor.....	4 00
Chas. Bell.....	3 52	M. Mark	8 50
Mrs. M. Powell.....	2 00	Dr. Geo. Graves.....	11 00
Mrs. Theo. Hilts	2 00	Jessie Adams	2 50
Dan'l O'Donnell.....	2 50	Mrs. E. H. Stacy	2 50
John Kent	2 00	Holingworth Estate.....	4 00
H. Churchill	20 13	V. Gunter	2 00
F. H. Burrill.....	4 50	Theo. Alman Estate	10 00
H. A. Deimel.....	15 00	Spier & Weber.....	4 50
Dr. E. G. Kern.....	4 50	Mrs. D. M. Burgess.....	8 60
C. C. Baum.....	2 50	Davis Bros.....	7 75
B. H. Davis.....	4 50	G. D. Longshore	3 50
C. W. Palmer & Co.....	12 25	C. Rasbach	2 00
C. W. Palmer	4 00	Geo. Wood.....	2 00
S. C. Harter.....	9 00	Mrs. J. Mabbett.....	2 00
John Kershaw	5 50	C. Waterbury.....	2 00
S. Taylor	10 00	W. E. Rouse	2 00
Chas. Atkins.....	6 50	Peter Heinzelman	8 00
Geo. W. Smith.....	8 50	Ella McGovern	2 00
Manion & Fick	31 25	Chas. Evans	1 50
J. H. Huyck	31 75	D. C. Dempster.....	2 00
A. T. Smith.....	12 00	Rev. W. F. Markham	5 50
Haller Bros	6 00	Henry Edick	18 25
Casper Haller.....	12 00	Mary Saults	2 00
B. Patrick	4 25	Rev. J. H. Halpin.....	5 50
C. A. Snyder	8 00	H. Harter	2 00
M. E. Parsonage.....	6 00	H. R. Davis	3 50
Cyrus Kay.....	10 75	Roselle Potter	2 00
Samuel Berger.....	2 00	Warren Caswell	4 00
Peter Huyck.....	6 50	Dr. A. W. Suiter	5 50
V. H. Eaton.....	9 50	Citizen Pub. Co	66 69
Peter Pfaltz	2 00	Wm. Filhour.....	4 00
Rev. Mr. Prout.....	8 50	Wm. Filhour.....	2 00
Clarence Dwyer.....	4 00	Geo. Small.....	2 00
Chas. Avery.....	8 00	Casper Haller.....	21 50
B. G. Loomis	8 00	John Zintzmaster.....	5 00
C. L. Earl	8 00	F. A. Jaques.....	2 00
I. R. Devendorf.....	11 95	J. H. Stewart	2 00
R. R. Wood	2 00	J. H. Evans	9 00
Herkimer Union School	44 50	Wm. Canedy	10 00
J. P. Holden.....	8 00	Holingworth Estate.....	4 00
Geo. T. Woodin.....	4 00	Herman Rich.....	2 00
Phil Helenack	8 00	Casper Haller.....	4 50
Mary Lepper	4 00	N. Y. C. R. R	12 00
J. A. Steele	4 50	J. W. Smith	7 00
A. W. Suiter.....	5 50	F. Griffin.....	2 00
P. S. Richardson.....	4 00	S. Wilson	7 00
H. H. Batchelder.....	8 50	Mrs. A. Moore.....	2 00
Deimel & Schermer.....	20 75	M. M. Paul.....	5 00
M. L. Hagadorn.....	60	Jacob Kaufman.....	2 00
G. P. Folts.....	78 13	A. C. Devendorf.....	2 00
H. R. Davis.....	2 00	Nicholas Orjel.....	4 00
H. Sarsman.....	5 00	C. W. Edwards.....	2 50
Mr. Griner.....	2 00	Miss Chatfield	5 50
Levi Bliss	4 50	H. Edick.....	3 50
L. Bliss.....	2 00	L. J. Folts.....	2 00
J. M. Cole.....	4 50	A. B. Steele.....	1 00
Mrs. Haner.....	2 00	J. S. Loveland.....	2 00
H. A. Deimel.....	27 60	Albert Schrader.....	2 99

Ceylon Walby.....	\$ 2 00	Herkimer Mfg. Co.....	\$ 10 50
Hon. Robert Earl.....	92	M. A. Gilchrist.....	5 50
J. P. Holden.....	4 00	Henry Churchill.....	7 75
Balbina Smith.....	2 00	James Kershaw.....	2 00
Geo. M. Sheaf.....	9 00	C. W. Palmer & Co.....	12 75
Cephus LaDoe.....	3 50	C. W. Palmer.....	61 00
J. P. Holden.....	4 00	Mrs. Granger.....	2 00
Mrs. Monroe.....	23 25	C. Gschihay.....	3 00
Felix Helenack.....	7 50	J. M. Metzger.....	7 50
D. A. W. Suiter.....	2 00	A. H. Rasbach.....	2 00
O. G. Stears.....	5 00	J. H. Nelson.....	29 50
B. J. Harter.....	1 00	Mrs. McCreary.....	5 50
Eliza A. Woodard.....	2 00	C. M. Batchelder.....	5 50
Deimel & Snell.....	28 00	Mrs. H. Roland.....	14 00
H. A. Deimel.....	22 00	Aaron Snell.....	24 00
C. R. Snell.....	13 00	A. T. Smith.....	13 50
Deimel & Snell.....	2 50	Dr. A. W. Suiter.....	5 50
Geo. Sims.....	7 50	John Campbell.....	7 50
Dr. Kay.....	20 25	Charles McCumber.....	2 00
M. Mark.....	4 00	H. H. Batchelder.....	5 50
Emma Dager.....	2 00	H. G. Newton.....	5 50
W. H. Whitehead.....	5 00	Mrs. C. Butterfield.....	4 00
Jerry Murray.....	6 00	W. G. Burrill.....	6 00
Arthur Bates.....	2 00	Julia and Eva Weaver.....	4 00
Jessie Adams.....	2 00	J. H. Shaper.....	6 00
Sam'l Berger.....	2 00	Philip Harter.....	6 00
J. A. Suiter.....	2 00	A. T. Smith & Co.....	4 00
J. A. Suiter, jr.....	6 00	George Bassett.....	2 00
G. P. Folts.....	50 12	Frank Spohn.....	24 50
Mrs. Draper.....	3 00	Stephen Taylor.....	19 00
Mrs. D. Snell.....	2 00	Charles Rasbach.....	2 50
Geo. H. Bunce.....	2 00	A. Ertman.....	5 00
A. Rust.....	2 00	J. H. Huyck.....	28 75
J. E. Freeman.....	7 00	Fox estate.....	2 00
J. H. Stewart.....	2 00	Jackson Peck.....	2 00
L. Turnier.....	2 00	G. F. Harter.....	2 00
M. C. Prince.....	2 00	Edward Reordan.....	6 00
L. Small.....	2 00	C. Atkins.....	4 00
L. Small.....	2 00	Fannie L. Ingraham.....	2 00
J. A. Schrott.....	2 00	S. C. Harter.....	6 50
John Kershaw.....	2 00	John Roof.....	2 00
H. Griner.....	2 00	P. A. Harter.....	2 00
Sam'l Walhart.....	2 00	H. A. Deimel.....	3 50
L. A. Lawton.....	7 50	R. R. Wood.....	2 00
Ernest I. Harter.....	2 00	Herkimer Union School.....	44 50
Mrs. Hodge.....	3 50	George Woodrich.....	2 00
D. Hardigan.....	2 00	W. B. Pierce.....	5 50
Mrs. T. Getman.....	3 50	W. H. Williams.....	1 75
P. S. Richardson.....	4 00	J. D. Henderson.....	15 00
S. W. Stimson.....	3 50	J. V. Hemstreet.....	3 00
F. Manley.....	3 00	M. Foley.....	19 25
A. Reid.....	6 00	F. F. Lathrop.....	3 50
C. Millington.....	6 75	Standard Furniture Co.....	7 00
Wm. Weaver.....	6 00	C. B. Perry.....	7 50
Ernest Hext.....	2 00	Charles McCumber.....	2 00
Mrs. H. M. Gray.....	6 00	Griswold & Lankton.....	3 50
Mrs. E. H. Stacey.....	2 00	M. Mark.....	6 00
Jas. Powell.....	2 00	Merton Wood.....	6 00
Edward Davis.....	2 00	W. Witherstine.....	3 50
H. G. Munger.....	6 75	Darius Kill.....	2 00
Geo. Van Alstine.....	7 50	Davis Bros.....	4 20
Mrs. E. H. Stacey.....	5 50	J. B. Baum.....	2 10
W. P. Munson.....	12 00	Manion & Fick.....	36 09
Mrs. M. Powell.....	2 00	J. M. Ausman.....	4 00
Mrs. John Zintsmaster.....	3 00	C. C. Baum.....	2 50
Patrick Fagan.....	6 00	Mrs. Hubbard.....	17 00
John Raskisway.....	2 00	Fred Fick.....	6 00
H. R. Darling.....	3 66	Manion & Fick.....	9 00
John Metzler.....	7 50	B. Manion.....	7 50
Dorothy Bacle.....	3 66	M. E. parsonage.....	2 00
Silliman Bros.....	17 40	J. W. Vroman.....	2 00
E. G. Silliman.....	2 00	Utica Shoe Co.....	3 00
Lorenzo Carroll.....	4 00	Perry & Moore.....	26 75
L. Schermer.....	6 75	Morris Mark, bakery.....	6 00
John Willis.....	5 00	J. F. Sheaf.....	2 10
Deimel & Schermer.....	10 50	J. S. Reno.....	2 10
M. A. Deimel.....	11 00	Ed. Montgomery.....	9 00
T. A. Barry.....	6 00	J. T. Colcord.....	3 68

Mary E. Davis	\$ 2 00	George Hesler	\$ 2 00
M. Caldwell	5 77	Jacob T. uax	3 68
Dr. Graves	7 50	T. H. Manion	1 66
T. F. Mills	2 10	R. M. Richardson	28 63
M. Foley	3 15	J. W. Baker	20 38
P. H. Brown	8 75	James Murren	2 10
Ed. Witherstine	2 10	C. A. Miller	9 97
C. P. Avery	5 50	F. H. Burrill	2 10
H. Sarsman	2 00	George Weber	5 50
Mrs. N. H. Perry	3 00	Ann Whitty estate	2 00
John Metsler	5 68	James Fagan	5 50
Wm. Fenner	2 10	James Harris	4 00
G. P. Munson	5 50	Mrs. E. C. Davis	1 66
Munson & Spinner	3 50	H. A. Deimel	10 50
C. C. Spinner	2 50	George Benson	2 10
J. H. Nelson	1 55	Wm. Lyons	9 98
Catherine Grogan	4 20	S. G. Snell	2 10
W. C. Prescott	2 10	G. G. Harter	2 00
J. V. Steele	6 30	R. Wood	2 10
E. B. Mitchell	5 75	H. & F. Trenbeth	6 00
A. J. Smith	2 10	P. B. Spinner	2 10
Wm. Whitmore	1 50	J. M. Cole	2 00
Wm. Monroe	6 48	E. S. W. Thomson	4 25
F. Stolpe	6 60	W. H. Prowse	13 00
D. H. Nichols	2 00	Prowse & Thomson	9 50
Herkimer Gas Co	26 00	T. H. Manion	1 00
Morris Mark	9 32	B. J. Harter	3 35
H. M. Quackenbush	13 38	C. B. Morris	4 20
I. O. Nellis	1 16	C. C. Witherstine	9 00
Griswold & Lankton	2 79	W. H. Williams	2 10
C. C. Baum	2 50	N. P. Mount	2 10
Mr. Edwards	20	John Getley	10 50
Standard Furniture Co	14 50	W. H. Williams	4 20
Gem Knitting Co	12 00	H. Beckingham	3 63
C. C. Pierce	3 67	C. A. Dwyre	4 20
Silman Bros	2 84	— Ouderkirk	4 20
Herkimer Opalite Co	1 00	Reformed church	4 20
Jacob Harter	6 00	Union church	2 50
C. S. Munger	2 75	Herkimer Park Co	16 80
C. A. Fox	2 10	Y. M. C. A.	12 00
Metsler & Heintzman	2 52	G. A. R	3 68
C. A. Stoddard	5 00	Wm. Lyons	3 36
School District	10 00	Adam Dager	1 00
Graham Bellinger	20 00	Peter Huyck	4 20
Manion & Fick	96	Rees Allen	2 10
W. A. Stoddard	2 00	Rev. W. C. Prout	6 00
B. Patrick	4 25	George W. Nellis	15 87
Citizen Publishing Co	30 49	Wm. Benchly	2 00
Herkimer Record	14 34	George Green	6 85
J. H. Nelson	1 25	H. Lawler	2 10
J. H. Nelson	7 50	Mrs. Theo. Hilts	2 10
C. Waterbury	2 10	John C. Mabbett	2 10
F. G. White	2 00	N. Y. C. R. R. Co	26 00
A. Witherstine	2 00	Nash Meter Co	1 25
J. H. Ausman	3 10	Casper Haller	75
C. W. Edwards	35	W. H. Williams	4 50
H. P. Witherstine	43 34	F. H. Smith	5 77
George Hall	5 17	S. Steiner	1 00
Union Church	2 00	C. L. Earle	5 77
George E. Greene	5 00	I. R. Devendorf	5 77
J. W. Baker	23 21	C. W. Richardson	2 10
C. H. Burrill	5 77	Alonzo Rasbach	2 10
Fred Griffin	2 00	J. H. Ausman	2 10
F. G. Barry	4 20	M. F. Bedell	2 10
Wm. Dutton	5 77	C. A. Snyder	8 40
Geo. W. Smith	4 20	Prowse & Thomson	1 00
J. A. Steele	2 10	George W. Nellis	5 50
Mrs. J. L. Hanes	2 10	George Volk	2 10
Doxtader & Noble	9 45	E. A. Harris	2 10
Norman Doxtader	2 10	Antoine Aberline	2 10
Mrs. Goldsmith	2 63	Mrs. Dr. Burgess	2 10
V. Gnute	2 10	H. H. Longstaff	5 50
John H. Kent	2 00	George W. Nellis	2 00
Albert Wilbur	10 50	F. Hall	2 10
Herkimer Cash Store	2 91	Deimel & Snell	2 50
N. H. Perry	2 00	L. West	2 10
Wm. Howell	8 00	Herkimer Paper Co	18 42
Laura Smith	2 00	M. A. Goldsmith	2 50

HERKIMER MUNICIPAL COMMISSION.

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Christ church	\$ 6 58	H. R. Davis	\$ 10 00
Joseph Ausman	2 50	J. G. Bellinger.....	4 75
J. Harter	2 00	C. Kay.....	11 00
C. H. Warburton	2 00	George Morris.....	5 50
George C. Wood	2 00	Fox estate.....	3 50
W. H. Crego	2 00	Mary A. Harter.....	2 00
George T. Woodin.....	2 00	Charles Bell ..	2 00
Charles Bell.....	1 75	Thomas Lafayette.....	2 00
George Hall	5 00	Thomas Grosvenor.....	5 00
George Drury	4 48	C. F. Nellis.....	2 00
H. P. Witherstine.....	8 00	W. H. Rhoda	2 00
C. S. Millington	1 15	Herkimer Paper Co	17 31
M. Mark	2 50	Edward Anderson.....	7 00
Isaac Harter	2 30	Charles Bunnell ..	2 00
F. H. Smith.....	58	Charles Evans	2 00
George Hall	1 50	Arthur Stephens	4 00
Coonrad Bloom	2 00	Fannie Chapman.....	5 00
Utica Shoe Co	4 68	Charles Bunnell ..	5 50
Standard Furniture Co....	2 60	Standard Furniture Co	17 34
Thomas Kelly.....	2 00	J. H. Nelson	2 00
Michael Barrey.....	2 00	Morris Mark.....	121 04
Jacob Tyler.....	2 00	P. J. Dineen.....	2 00
Kent	2 00		


F. Wolf.....	9 00	H. P. Witherstine	131 63
Wm. Palmer	7 50	J. H. Walrad	6 00
Dr. H. C. Backus	2 00	Josephine Walrad	2 00
James Murray.....	2 00	Herkimer Bank.....	11 00
C. E. Snyder.....	12 00	H. Crisman.....	2 00
John Strouse	2 00	A. B. Steele.....	5 00
L. Smith.....	2 00	C. D. West	2 00
I. A. Nellis.....	2 00	John Kershaw	4 00
E. K. Ladue.....	2 00	H. M. Quackenbush.....	21 13
H. McNeil.....	2 00	Mrs. D. N. Crisman	2 00

Rules and Regulations for the Use of Water.

I. *Applications for Water.*—All applications for the introduction or supply of water to any premises, or for the extension of any pipe for the conveyance of such water, must be made in writing on the books of the Commission, and if the applicant is not the owner of the premises, the written consent of the owner must accompany the application.

Where more than one building, or one tenant, is supplied through one service pipe, the application for the supply of such buildings, or tenants, shall be made by one person, and said person shall be held responsible for all supplies through said service pipes.

II. *No Permits.*—No permits will be granted for baths, water closets, or wash basins, when it is not also taken for household or office purposes.



V. *Commission Not to Connect.*—The plumbing on the premises to be supplied with water must be completed before any connection with the mains shall be made; and the Commission reserves the right to decline to connect with plumbing not in accordance with the Commission's Rules and Regulations.

VI. *Openings and Work in Streets.*—The street must be opened and the paving stones and earth deposited in a manner that will occasion the least inconvenience to the public and provide for the passage of water along the gutters; the paving and flagging must be restored as quickly as possible to as good condition as previous to the excavation, and all work in the streets in making service connections and repairs, must be at the sole risk and responsibility of the person having the same done, or of the plumber doing the same.

VII. *Owner or Tenant Must Not Supply Other Persons. Must Have Independent Service, Except by Permission. Where Two or More Are Supplied by One Service.*—No owner or tenant of any premises sup-

plied with water by the Works will be allowed to supply water to other persons or families ; if found so doing the supply will be stopped and the amount paid forfeited ; and except where special permission is granted by the Commission, each consumer must be supplied by independent service pipe from the main. In case two or more parties are supplied with water from the same service, if either of the said parties fail to pay the water rates when due, or to comply with any rule of the Commission, the Commission may turn off the water from such pipe until the rent is paid and the rule strictly complied with.

VIII. *Service Pipe and Fixtures Subject to Approval of Commission.*
Service Cock.—All lateral or service pipes, for public or private use, and all necessary fixtures connected therewith, shall be subject to the approval and laid under the supervision of the Superintendent ; said pipes, etc., should be laid not less than four feet deep, and must be kept in good repair, and must be protected from the frost by and at the expense of the applicant. All connections with the street mains will be made by the Commission, and there shall be a suitable stop-stock, with well and cover, as prescribed and provided by the Commission, for which the applicant must pay the Commission at the time of making such application. Such connection will be regarded as a part of the main pipe, and will belong to the Commission ; also, in all cases, a stop-cock, with well and cover, shall be put in at the curb, or outer edge of the walk, and another, with waste, inside of cellar wall.

IX. *Use for Protection.*—The Commission has the right to use any of the service cocks when necessary for its own protection.

X *Turning on Water.*—No plumber or consumer shall turn on water to any premises, whether an old or new supply.

XI. *Notice when Connection to be Made or Water Turned Off.*—Notice must be left at the office of the Commission the day before any service is to be put in, stating the street and the number of the location and the name of the person owning or occupying the premises, and the exact time when the trench will be ready for making the connection ; and a like notice must be left when water is to be turned on to any premises.

XII. *Streets and Lawn Sprinklers.*—The season for the use of water for street or lawn sprinklers, or yard fountains, begins May 1st and expires on November 1st.

No abatement in the regular charge will be made for any fractional part of the term.

The use of hand hose for street sprinkling will not be allowed between the hours of 9 A. M. and 4 P. M.

All hose attachments, if used as sprinklers, will be charged in addition as sprinklers, and subject to the rules regarding sprinklers.

Street sprinklers, or washers, must not be used to sprinkle beyond the center of the street, or the limits of the premises of those paying for them ; or for filling cisterns, or converted into jets, or be used for

washing down the collections of the gutters upon neighboring premises, or used to flood the streets, but merely to sprinkle them, and must not be permitted to run except when in actual use; and it is expressly understood that the water paid for as street or lawn sprinklers, cannot be used for any other purpose, except in case of fire; and parties so using it are liable to have the water cut off without notice.

XIII. *Waste Water.*—Taps at sinks, wash basins, water closets, baths, urinals, sprinklers, and for other uses, must be kept closed when not in actual use, and must not be allowed to leak.

XIV. *Fountains.*—No yard fountain, or jet, shall be used longer than six hours a day for six months in the year, without special arrangement; and the application shall state at what hours it shall be used, and if found running at any other time the water will be shut off from the premises.

XV. *Inspection of Premises*—The Superintendent personally, and any person delegated by him for that purpose, must at all reasonable hours have free access to all parts of the premises to which water is delivered, for the purpose of inspection, examination of fixtures, etc., and all persons using water must, at all times, frankly, and without concealment, answer all questions put to them relating to its consumption.

XVI. *Vacating Premises. Transfer of Balance of Rates Paid.*—Consumers vacating their premises must give notice at the office of the Commission, that the water may be shut off; and they will be held responsible for the water rate until such notice is given. Where there is a change of occupants, the balance of a bill paid in advance may be transferred, on notice at the time, to other premises for the same uses, but no balance of a bill will be refunded.

XVII. *Leaks.*—When leaks occur in service pipes at any point beyond the main pipe, they must be immediately repaired by the owner or occupant; and if not repaired within a reasonable time, after notice, the water will be shut off until repaired.

XVIII. *Payment of Water Rates.*—All water bills shall be paid on the first day of April and October, at the office of the Commission, in advance; street washers, fountain and yard sprinklers, payable on the first day of May for the season. All bills must be paid within thirty days from date of same, or water will be turned off without notice. When meters are used, the estimated amount shall be paid in advance, subject to meter measurement.

XIX. *Water Closets.*—None but self-closing water closets or urinals shall be used, which must be subject to the approval of the Superintendent.

XX. *Fraudulent Misrepresentations, Uses, Waste, Etc.*—In case of misrepresentations on the part of the applicant, or of uses of water not embraced in the application, or of willful or unreasonable waste of water or violation of any of the Rules and Regulations of the Commission, or non-payment of rates when due, in addition to

the penalties hereinbefore imposed the water will be cut off without notice, and the payments will be forfeited, and the water will not be turned on again unless upon satisfactory assurance that no further cause of complaint shall arise and the payment of such penalty as the Commission shall impose ; and the sum of one dollar will be charged for turning on the water again.

XXI. *Check Valve*.—All house and other boilers shall be fitted with a suitable check valve to prevent accidents from collapse or damage in case the water is suddenly drawn off from the main pipes.

XXII. *Meters*.—The Commission reserves the right to attach meters at any time whenever they shall deem it expedient, and charge for the quantity of water measured, or used, instead of the special rates. A reasonable charge will be made for the use of the meters.

XXIII. *Deficient Supply*.—The Commission reserves the right to shut off the water for alterations, extensions and repairs, and to stop and restrict the supply of water whenever it may be found necessary ; and the Commission shall not be liable, under any circumstances, for the deficiency or failure in the supply of water, whether occasioned by shutting off the water to make repairs, or connections, or for any other case whatever.

XXIV. *No Rebates for Partial Uses*.—No rebate from rates will be allowed for partial use of water from wells, cisterns, etc.

All fixtures for the supply of water for which the Commission have regular rates, must be paid for or disconnected from service pipe.

XXV. *Changing Rules and Rates*.—The Commission reserves the right to change the Rules and Regulations and the rates for the use of water from time to time, and to make special rates, or contracts, in all proper cases.

XXVI. *Right to Use Water as Agreed Only*.—The Commission agrees to furnish water on certain terms for certain specified uses, for a certain sum.

Therefore, the consumer will not be permitted to use it for any other purpose than that stated in the agreement.

Rules for Plumbers.

1. In no case must a plumber turn on water for a consumer without the written consent of the Commission, under a penalty of ten dollars.

2. The Commission will furnish and put in Corporation Taps, and no other person will be allowed to tap the mains.

3. The tapping will be done at the expense of the applicant.

4. All service pipes from the mains to the curb stone must be equal in strength to "AA" lead pipe ; ball or wiped joints must be made in all cases when lead pipe is used. Where service pipe of a more rigid

material than lead pipe is used, it must be connected with the mains by at least two feet of lead pipe, and the stopcock at the end must have nut and washer.

5. The service pipe must be laid at least four feet below the surface of the street, and in such a manner as to prevent rupture by settling, and must be provided with a stopcock at the curb stone in all cases, whether a street washer is attached or not, protected by a box leading from the same to the surface, with an iron cover, with the word "water" marked thereon and so exposed as to be readily found ; the whole to be subject to the approval of the Commission.

6. Notice must be left at the office of the Commission on the day previous to the one on which the tapping will be required, stating the hour when the street will be open at the main ; and after the tapping is done, the connections must be made, and the street and pavement put in good condition, and all rubbish removed with as little delay as possible.

7. All service pipe shall be at least one-eighth of an inch larger in the interior than the Corporation Tap.

8. A stop and waste cock must be located inside the building, and the pipes so arranged that the water can be drawn from them whenever there is danger of its freezing.

9. No plumber will be allowed to open the street for the introduction of service pipe without a written permit from the Commission ; and the water must not be turned on for use until an application has been signed at the office of the Commission. stating fully the purposes for which the water is to be used.

10. No addition or alteration whatever, in or about any public or private pipe, conduit, water cock or other fixtures, shall be made by any person without permission first had in writing from the Superintendent. Any plumber or other person making such addition or alteration, shall be subject to a penalty of ten dollars for each offence.

11. Each plumber will be provided with blanks which are to be filled out and returned to the office of the Commission as soon as the work is completed.

12. On the first day of May in each year, any plumber wishing to engage in repairs of Herkimer water pipes, or laying new services, must obtain a permit from the Commission, and in case of a violation of any of the above rules, the permit will be revoked.

13. All house and other boilers shall be fitted with a suitable check valve to prevent accidents from collapse, or damage in case the water is suddenly drawn off from the main pipes.

Tariff of Annual Rates.

BATHS.		OFFICES.	
Public, each tub	\$ 15 00	Law	4 00
Hotel,	10 00	Physician	4 00
Boarding Houses, each tub.....	5 00	Dentist	6 00
Private Dwellings..	3 00	Bath Tub	3 00
" " each additional tub	1 50	Water Closet.....	3 00
		Urinal	3 00
BARBER SHOP.		PRINTING OFFICES.	
First Chair	4 00	For 10 hands or less	10 00
Each additional chair	1 00	Each additional hand	1 00
BAKERIES.		(Exclusive of Steam Engine.)	
One Faucet	6 00	PHOTOGRAPH GALLERIES.	
Provided, that no Bakery shall pay less than \$6.00 per annum, exclusive of charge for steam boilers.		One Faucet....	6 00
BOARDING HOUSES.		RESTAURANTS AND SALOONS.	
From	\$5.00 to \$20 00	One Faucet	10 00
Baths, per tub	5 00	SLEEPING ROOMS.	
Water Closets, each	6 00	In Blocks or Stores, Each....	4 00
" " each additional	3 00	Bath Tub	3 00
Urinals, each	4 00	Water Closet	3 00
BUILDING PURPOSES.		Urinals.....	3 00
Laying stone, per cubic yard	3 cts.	SCHOOLS.—Not Boarding.	
Laying brick, per thousand	4 cts.	For 25 scholars or less	6 00
Plastering, per 100 square yards	20 cts.	Each additional scholar.....	05
BLACKSMITH SHOPS.		SODA FOUNTAINS.	
One Fire	4 00	One Faucet	8 00
Each additional	1 00	STEAM ENGINES.	
DWELLINGS.		Per Horse-Power, up to 15 Horse-Power	
For a family, in a house, one faucet....	4 00	Each additional Horse-Power ...	
For each additional faucet (not including bath tubs or water closets) ...	1 00	STORES.	
FOUNTAINS.		Provision, Drug, Grocery and Liquor	4 00
(To be used 6 hours per day for 6 months in the year.)		Other Stores.....	4 00
1-16 inch delivery	5 00	STABLES.	
Each additional jet of 1-16" inch ..	3 00	Livery, Omnibus and Boarding, stalls, each	1 00
1/8 inch delivery	8 00	Private, with water for washing, not exceeding one horse.....	2 50
Each additional jet of 1/8 inch	4 00	Each additional horse	50
GREENHOUSES.		Each cow	50
Private	4 00	Hotel Stables, per stall.....	50
Public	10 00	SPRINKLERS—Street, See Rule 12.	
HOTELS.		On Front, not exceeding 50 feet ..	2 50
From	\$5.00 to \$30.00	Each additional foot above first 50 feet, per running foot	05
Bath Tubs, each	10 00	If on corners, additional to above, per foot.....	2 1/2 cts
Water Closets	6 00	All Hose Attachments to be charged as Sprinklers.	
Urinals	3 00	SPRINKLERS—Lawn or Garden.	
Wash Basins in sleeping rooms, whether supplied by faucet or carried to rooms....	50	For watering Lawns or Gardens, and washing inside walks, stoops and outside of buildings, included in street sprinkling...	
LAUNDRIES.		If revolving or movable sprinklers are used, one-half the above rate will be added.	
General Purposes	10 00	WASHTUBS—Permanent.	
MECHANICAL SHOPS.		In use for not more than eight persons	1 00
Not exceeding 25 hands.	8 00	Per each additional....	1 00
Each additional hand.....	10	WATER CLOSETS.	
Water Closets, each.....	6 00	Private Dwellings..	3 00
Urinals, each	3 00	Banks	6 00
MALT HOUSES.—(Special Rates.		Saloons	10 00
MARKETS.			
Meat or Fish	4 00		

Sewerage Ordinance.

SECTION I. The Board of Health and the Municipal Commission, or either of such Boards shall have power to stop and prevent the discharge of sewerage from any premises in the village of Herkimer into, or upon any public highway, stream, water course or public place, or into any drain, cess-pool or private sewer, or to order a connection to be made with the public sewer, for the removal of sewage from any premises whenever in the opinion of either of such Boards the public interest demands it ; and any person who shall neglect or refuse to comply with the order of such Board within ten days from the service of notice that any such order has been made, shall be guilty of a misdemeanor, and shall pay a fine of not less than \$10, nor more than \$50, upon conviction thereof.

SECTION II. It shall be a misdemeanor to do, or cause to be done, any of the following acts, except as hereinafter provided ; and any and all persons guilty thereof shall be liable upon conviction to pay a fine of not less than \$5, nor more than \$50 for each offense.

1. To uncover the public sewer for any purpose, or make connections therewith, or to uncover the public inspection or connection branches thereof, or to open any manhole, or flush tank, unless and except with the written consent, and under the supervision of the Municipal Commission or its authorized agent.

To do or cause to be done any injury of any kind in any manner to the pumping station building, the engine and pumps or any connection therewith, or outlet pipe or any part of the apparatus, or any other of the appliances, connections, or parts of the public Sewers.

2. To make or cause to be made any connection for the removal of sewerage from any premises with the storm water drain of the village or with any stream or water course within the limits of the village.

3. To make or cause to be made any connection with a house connection, or to connect any closet with a branch of the public sewer, except under a written license for the work signed by the Municipal Commission or its duly authorized agent.

4. To make or cause to be made any such connections, by any person than a mechanic, duly authorized to do such work by the Municipal Commission or the Board of Trustees of the Village of Herkimer or to make any such connections in any manner other than as follows, to wit :

(a) Every pipe connecting with the sewer from a point five feet outside the foundation walls of the building proposed to be connected must be either of heavy cast iron, or of salt glazed vitrified earthenware ; must be sound and impervious in all its parts ; must be proportionately laid on a true grade as nearly as possible in a straight line ; all changes in its direction must be made with properly curved pipe ; must be jointed in the best manner, and covered to a depth of at least

one foot with well rammed fine earth, entirely free from stone and rubbish, within forty-eight hours after the back filling of the trench is completed the paving or ballast must be replaced and the street left in the best condition to the satisfaction of the Municipal Commission, or its duly authorized agent, and in no case shall the public sewers be used by any private individual, until the connections therewith have been inspected and approved by the Municipal Commission or its duly authorized agent, and permission in writing for such use has been granted by the said Municipal Commission or its duly authorized agent.

(b) In all cases gaskets must be used to prevent cement or lead from running into the pipes.

(c) No drain connected with the sewer shall be laid with a less inclination or grade than one in sixty without the written permission of the Municipal Commission or its duly authorized agent.

(d) All drains connected with the public sewers shall be at least four inches in interior diameter. No earthenware pipe shall be laid less than two feet six inches deep. Pipes laid at less depth than the above shall be of heavy cast iron with well caulked lead joints.

(e) No person or corporation shall hereafter lay any pipe or conduit for any purpose whatsoever in any street within five feet on either side of the public sewer in such street without the permission of the Municipal Commission.

(f) No more than one building shall be connected with the public sewer through one drain without special permit signed by the Municipal Commission or the president thereof.

(g) In opening trenches on any street or public way, the paving or ballast must be removed with care; the sides of the trench must be sheeted or braced when directed, by the Municipal Commission or its agent, the earth thrown from the trenches must be placed so as to cause the least obstruction possible to public travel, gas and water pipes must be protected from injury and the trench enclosed and lighted at night, and every precaution necessary, taken, to prevent injury to persons or property, during the progress of the work as it shall be directed by the Municipal Commission or its duly authorized agent.

(h) Any settlement over a drain connecting with the public sewer occurring within ninety days after it has been laid shall be repaired at the expense of the owner of the property from which such drain has been laid.

(i) Notice must be left at the office of the Commission or its agent at least twenty-four hours before the beginning of any work upon a drain, and no material shall be used or work covered until inspected by the Commission or its duly authorized agent.

(j) Permits to make connections with the public sewers shall be issued only when the plumbing in the house or building to be con-

nected is in accordance with the rules for plumbing hereinafter described.

SECTION III. Before any building can be connected with the public sewer the plumbing in such building shall be inspected by the Board of Municipal Commission or its duly authorized agent and approved by him and a certificate of such approval filed in the office of the Commission. Under no circumstances can any mechanic doing the work of plumbing or house drainage, or any employee of such mechanic act as the agent of the Commission to perform the duties prescribed in this ordinance.

(a) All pipes from the sewer connections to the top of the soil pipes must be fully three inches in interior diameter at every point.

(b) No trap or manner of obstructions to the free flow of air through the whole course of the drain and soil pipes will be allowed, and any mechanic or other person who shall directly or indirectly place, make, cause or allow to be placed or made any trap, obstruction, contraction or other obstacle anywhere in the course of such drain or soil pipes shall be liable to pay a fine of not less than \$5, nor more than \$50, for each and every such offense, and if a licensed plumber, shall be liable upon conviction of such offense to forfeit his license and shall be ineligible to relicense for one year.

(c) Every connection of a water closet, sink, basin or other vessel connected with the soil pipe or drain must be separated from it by at least one trap properly arranged so as to prevent the passage of air or gas from the soil pipe into the building. All details of plumbing work must be of a kind and quality to be approved by the said Commission or its duly authorized agent. The discretion of said Commission or its agent in approving plans and accepting the work as above shall be limited only by the following requirements, viz :

1. No water-closet shall be set up in any house or building, in which its walls are not freely and fully washed by the normal discharge of the closet at each operation, nor shall any hopper closet be set up which has a trap of less than one and three-quarter inches seal.

2. Every trap constructed which is so situated as to be subject to siphonage by momentum or by suction shall be of a kind that can not have its water seal broken by siphonage or shall have an effective mechanical seal.

3. No cowl, return bend or cap shall be used at the top of any soil or vent pipe.

4. Every lateral branch extending more than ten feet from a ventilated soil or vent pipe with which it is connected, shall be independently vented through the roof of the building by a pipe of its full diameter. There shall be no trap in the course of such branch or vent pipe, each fixture being independently connected with it and having its own trap.

5. No fixture shall be trapped by having its outlet connected with the trap of another fixture.

6. From a point five feet outside the foundation walls of a building no material may be used for soil, waste and vent pipes other than wrought iron or cast iron pipes with securely leaded joints or lead pipes with soldered or wiped joints. Cement or putty joint. Tin or sheet iron pipes whether galvanized or not shall not be used.

7. No connections may be made at any point of the house drainage system with roof gutters or any other channel for the conveyance of rain water without permission from the Municipal Commission or their agent except that plumbing fixtures may be supplied from tanks constructed to store rain or city water for such purpose.

8. All soil and water pipes shall be direct as possible and all parts of the work shall be so arranged that they may be at all times readily examined and repaired. Before the fixtures are placed in connection with the plumbing of any house or building and before said pipe is connected with the drain the outlet of the soil pipe and all opening into it shall be hermetically sealed, the pipes shall then be filled with water to its top, and every joint shall be carefully examined for leakage, and all leaks shall be securely closed before connections with the soil pipes are made, except in cases of inspection of plumbing already existing, the peppermint, ether, or smoke test may be substituted by the Municipal Commission or its agent.

(d) The licensed mechanic employed to construct a house drain shall complete his work to the connection branch of the public sewer but no connection shall be made with the public sewer, except under the immediate supervision of the Municipal Commission or its agent and only after it or he shall have personally inspected and accepted the house drain and its plumbing connections and been satisfied that all is strictly in accordance with the requirements of this ordinance, and the permission of the Commission for such connection shall have been duly issued.

(e) Application for license to do any work under this Ordinance shall be made in writing to the Municipal Commission on proper blanks provided for that purpose. Every person, firm or corporation to whom a license is granted shall file a bond to be approved by the said Commission in the sum of \$500, condition to save harmless indemnify the village of Herkimer from all damages arising from making connections with the public sewer and no person, firm or corporation so licensed shall undertake any house drainage or plumbing work to be connected with the public sewers without first having received a special permit for such work in each case. Application for permits for house drainage and sewer connections must be made in writing by the owner of the property or his agent giving the name of the licensed mechanic who is to do the work and request that said mechanic be authorized therefor. Blanks for such application will be furnished

SECTION IV. Any person who shall allow any surface water or rain water from the ground or roof of houses or buildings to enter any pipe or drain or any vessel or slop stone connected with any pipe or drain connected with the public sewers, or admit any drainage water from any cellar into such pipe or drain without obtaining permission therefor from the Municipal Commission or its agent, or any person violating any of the provisions of section III of this Ordinance shall be liable upon conviction to pay a fine of not less than \$5, nor more than \$50.

SECTION V. Any person who shall throw, or deposit, or cause to be thrown, or deposited in any vessel, or receptacle connected with the public sewer any garbage, vegetable parings, ashes, cinders, rags or other matter or things whatsoever, except faeces, urine, the necessary water closet paper and liquid house slops, or to allow any house drain to be connected with any private vault or cesspool or underground drain, or with any other channel conveying water or filth, excepting the soil pipes and plumbing work of the house or building as hereinbefore provided, shall be liable upon conviction thereof to pay a fine of not more than \$50 for each offense.

SECTION VI. It is made the duty of the Municipal Commission to enforce full compliance with the Ordinances in relation to the Sewers and the connections therewith and for that purpose they may appoint a suitable person to act as their agent and any failure of duty on the part of said Commission or its agent shall subject the person in default to all the penalties of this ordinance.

SECTION VII. This Ordinance shall take effect and go into operation immediately.

352.0747

4

...Second Annual Report...

*Herkimer
Municipal Commission,*

Herkimer, N. Y.,

...April 1st, 1897...

Second Annual Report

OF THE

Municipal Commission

OF

HERKIMER, N. Y.,

APRIL 1, 1897.

BOARD OF COMMISSIONERS:

C. R. SNELL, President.

E. W. SLUYTER, Clerk and Superintendent.

M. L. HAGADORN, Treasurer.

W. P. MUNSON,	Term expires March 31, 1900
C. R. SNELL,	" " " " 1899
HENRY CHURCHILL,	" " " " 1898
LOUIS TURNIER,	" " " " 1897

CITIZEN PUBLISHING CO.,
BOOK AND JOB PRINTERS.
OFFICES : HERKIMER AND ILION, N. Y.

Report of the Municipal Commission.

To the Honorable Board of Trustees of Herkimer, N. Y. :

We present herewith, in pamphlet form, our Second Annual Report. This includes, as will be seen, a full statement of receipts and expenditures for each department under our control, with figures showing in detail the cost of maintenance, etc.

The operations of last year have been largely of a routine character, and call for no especial comment. We have purchased for the sum of \$800 of Dr. Webb, as was foreshadowed in our last report, four and forty one one hundredths acres of land adjoining the old lot. This purchase we regard a most fortunate one, since it saves from occupation by contaminating influences all the land near the wells in the direction from which the underground currents of water naturally flow, and at the same time secures plenty of room for such extension of the present method of procuring water as can ever be made profitable. In this connection we may say that we propose to take prompt action to protect the pump station from damage by water and ice which the flood of this spring demonstrated to be a necessity.

During the last summer we excavated a large and carefully constructed horizontal well on the lately acquired grounds, a detailed statement of which appears in our superintendent's report. This well has proved its superiority over the old driven wells which are now almost unused. We have also enlarged our boiler plant as reported by our superintendent.

The growth of our village calls for continued extension of the water, sewer and light systems. It seems probable that within a short time a trunk sewer must be laid along the eastern bank of the hydraulic canal, extending from German street to the river. This will relieve the main line through Bellinger street, a most pressing necessity, and do away with the two existing crossings of the hydraulic which are probably encroachments on private property.

As to the street lighting, we have reason to congratulate our people on the general good results shown in the operation of this department, the service being excellent, we think, and the cost certainly low. We have offered commercial arc lights to our business houses, but until the

demand for such lighting is largely increased, the expense necessary to establish a separate line to give service at all required hours, will not in our opinion be warranted.

The fire department is working with efficiency, and too much praise cannot be bestowed upon our firemen, who, in every instance which called for their efforts, have proved themselves intelligently faithful.

As much may be said of the police force.

On the whole, we trust our last year's work commends itself to the people.

Signed,

C. R. SNELL,
HENRY CHURCHILL,
W. P. MUNSON,
L. TURNIER,

Report of Superintendent.

To the Honorable Municipal Commission of the Village of Herkimer, N. Y. :

I have the honor of submitting my Second Annual Report of the departments under my charge during the past year.

WATER.

The water supply has at all times been sufficient for all purposes.

The attention of all users of water should be called to the fact that this water system belongs to them, and that it is a pumping system, each gallon of water representing power expended, and power can not be created with your plant without fuel. During the year just ended one million one hundred forty six thousand five hundred pounds of coal were used for pumping. Now, as this plant belongs to the public every gallon of water wasted, either by leaking service pipes or fixtures, represents so much of their property wasted.

During the year a large well has been constructed in the vacant lot north of the pump house.

This well is 122 feet long, 25 feet deep and dug nine feet wide. This was walled up eight feet, then covered with large stone, the balance refilled with gravel, making a filtering bed of 17 feet of gravel before any surface can reach the well.

A ten inch suction main connects the new well direct with the pumps, so arranged that either the driven wells, the new well, or both, can be used by either pump ; or one with the new well, the other with the driven well system, making it possible to use both pumps at the same time should occasion require.

Since October 25, 1896, the new well has been used almost exclusively, and the hours of pumping reduced in comparison to last year as follows :

Total hours pumped	October 25, 1895, to April 1, 1896.....	1,754.45
" " " " "	1896, to April 1, 1897.....	1,305.10

Actual saving in pumping hours in 5 months and 25 days. 449.35

EXTENSIONS.

The distribution system has been extended during the year as follows :

Five hundred and twenty-four feet 4-inch cast-iron pipe on South Main street.

A hydrant was placed at the south end of this line, situated nearly opposite the residence of T. E. Daily.

A valve on the south side of Smith street, at the intersection with South Main.

No breaks of any importance have occurred during the year.

The same lack of hydrants and valves spoken of in last year's report still exists.

PUMPS.

The pumps are all in good condition.

Water for condensing and boiler use was originally taken from the system. In time of low water this was found to be a heavy drain on the supply, and to avoid this a 3-inch line 426 feet long has been laid to the creek. This now furnishes sufficient water for both above mentioned purposes.

BOILERS.

The 100 horse power boiler has been partially reset and is now in good condition. A new one of 180 horse power has been added during the year. This now makes the steam plant all that can be desired.

LAMPS.

New lamps have been added during the year as follows : Prospect street, between Church and German ; Folts street, at the Hydraulic bridge ; corner Folts and Harter, and corner Green and Steuben.

ENGINE AND DYNAMOS.

Both the engine and dynamos are in good condition for the time they have been in use.

In general, our aim has been in this, as in all other departments, not only to keep them in repair but to constantly improve them.

SEWERS.

There are two hundred and twenty-nine connections with the public sewers.

The sewer system has been found to work perfectly for the purpose intended by Mr. Baxter, the engineer in charge of construction, viz : house drainage. The disposal of street and roof water was an after consideration and intended for a separate system. Experience has shown that as soon as overloading them with roof water and catch basins is permitted, they lose their efficiency for their original purpose of house drainage.

FIRE.

The fire alarm system has caused but little trouble during the year, and has been at all times in working order. Some changes should be made in the wiring from buildings to the electric light poles, as more or less trouble is always experienced from breaks on buildings.

BUILDINGS.

The engine house on Main street is in need of repairs. The sills and floor joists are badly decayed and the building has settled. New posts have been put in the cellar which will tide us over temporarily, but if the building is to be used as at present for storing fire apparatus general repairs must be made soon.

HOSE.

Five hundred feet of fire hose has been bought during the year. This hose was intended for use on Lake, West Lake and German streets, to be placed as soon as a cart and building for storage can be provided. This expenditure was found necessary on account of the distance to these streets from the present fire apparatus.

POLICE.

Your attention is called to the report of Chief Manion which more fully explains the workings of that department than any words of mine can.

Again thanking you for your uniform kindness and courtesy,

I am yours respectfully,

E. W. SLUYTER, *Clerk.*

Report of Chief Engineer.

To the Municipal Commission :

GENTLEMEN : Pursuant to your request and time honored custom, I herewith submit to your honorable body my Annual Report as Chief Engineer of the Fire Department.

It is with much pleasure that I am able to state that the needs of the department are few, except clothing, and that the apparatus and equipments are abundant for present use. Since the purchase a short time ago of five hundred feet of fire hose, we have plenty for any emergency. The old hose is in splendid condition, and much of it nearly as good as new, which is due to the excellent care it has always had after service. The emergency jackets, recently purchased, will allow the department to use the old hose for some time to come without any embarrassment from leaks or breaks.

The people of Herkimer may congratulate themselves upon their escape during the last year from serious conflagrations. We have had several stubborn and critical blazes, but the prompt response and determined work of the department quickly subdued them, without serious loss except from water. I might add here that the unfavorable criticism sometimes showered upon the department because there has been considerable water damage, is very natural, coming as it does, from those whose knowledge of fire matters is limited. When we consider what probably might have happened, in all recent conflagrations, had we any other but our present efficient and thoroughly posted department, we ought to feel proud of their services. It is impossible to extinguish a fire with any headway whatever, without an abundant use of water ; and to confine the fire to the building in which it starts is a well-practiced rule which has always brought good results where discretion has prevailed. The various fires which we had, in every instance, have been confined to the building and places of their origin, and in many instances have been confined to the exact spot where they started. No citizen who has any sense of gratitude, can help but feel proud of our department ; and the encouragement and compliments the department has received in the past, is a stimulus for more earnest and determined work in the future.

Of the fires, the alarms to which the department responded, the following are among my record : Kent fire, Zintzmaster Block, April

7, 1896; Sautter fire, Fox Block, June 2, 1896; Deimel's residence, Albany street, Sept. 5, 1896; Democrat office, Main street, Nov. 14, 1896; Seymour's store, Record office, Dec. 7, 1896; Longstaff's, Tower building, Main street, Dec. 14, 1896; Poland fire, Jan. 25, 1897; Empire House, Prospect street, Feb. 18, 1897.

At the fires of December 7 and February 18, no water was turned on, the fires being extinguished by hand. The Poland fire was on a bitter cold night, with a high wind. Although the department was quick to respond for assistance, there was considerable delay in getting the train ready, on account of the crew being asleep and scattered in all parts of the village. Superintendent Wilbur of the A. & St. L. gave the department every assistance and accommodation in his power. The department was unable to render any service on account of the scarcity of water. When the steamer was put in action nothing but snow water could be obtained, which choked the cylinder and immediately froze therein.

In conclusion, I wish to express to the Commission my humble appreciation for the kind and prompt consideration given to my suggestions at all times and on all occasions; and I also wish to state that the department as a whole is in a healthy and flourishing condition.

EDW. SMALL, *Chief.*

Balance Sheet.

ASSETS.

WATER SYSTEM.

Cost, per report April 1, 1896.....	\$68,259 06	
Added since—Schedule A.....	2,620 18	\$70,879 24

LIGHT SYSTEM.

Cost, per report April 1, 1896.....	16,858 53	
Added—Schedule B.....	799 09	17,657 62

SEWER SYSTEM.

Cost, per report April 1, 1896.....	57,924 71	57,924 71
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FIRE SYSTEM.

Cost, per report April 1, 1896.....	4,469 78	4,469 78
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SUNDRY INVENTORIES.

Light maintenance, Schedule C.....	362	52	
Water " " D.....	598	07	
Sewer " " E.....	178	94	
Police " " F.....	129	50	
Fire " " G.....	3,251	90	
General expense account, Schedule H	286	43	4,807 36

OUTSTANDING ACCOUNTS.

Bills receivable.....	175	00	
Due from Herkimer County.....	10	65	
" Town of Herkimer.....	152	90	
" Sundry persons, back water tax..	28	54	
Checks in hand of Treasurer.....	188	94	556 03
			\$156,294 74

LIABILITIES.

BONDED DEBT.

Light bonds outstanding.....	\$14,000	00	
Water " "	57,000	00	
Sewer " "	55,500	00	\$126,500 00
Interest accrued and not due on light bonds	466	67	
" " " " water "	1,523	96	
" " " " sewer "	386	25	2,376 88

FLOATING DEBT.

Due E. B. Mitchell, police justice.....	38	67	
" M. L. Hagadorn, treasurer.....	229	55	
" W. P. Munson, rent.....	60	00	
" W. H. Prowse, rent.....	75	00	
" Edward Small.....	50	00	453 22
Surplus, being excess of assets over liabilities.....			26,964 64
			\$156,294 75

Treasurer's Statement.

CASH RECEIPTS.

Balance on hand with Superintendent.....	\$	3	41
" " " Treasurer.....		9	83
From sale material.....		26	50
" Deimel & Schermer.....		14	00

From Herkimer Paper Co.....	20 75
“ Postal Telegraph Co.....	15 00
“ Water maintenance.....	6,771 41
“ Police “.....	506 70
“ Fire “.....	23 50
“ Village trustees.....	10,389 50
“ Miscellaneous.....	5 00
“ Sundry persons, old water tax.....	43 52
“ Overdraft at bank.....	183 72
	<hr/>
	\$18,012 84

CASH DISBURSEMENTS.

For additions to systems.....	\$ 4,252 66
“ maintenance accounts.....	13,031 88
“ bills receivable.....	137 94
“ old floating debt and arrearage account.....	401 42
Checks not deposited.....	188 94
	<hr/>
	\$18,012 84

M. L. HAGADORN, *Treasurer.*

Light Maintenance Account.

OPERATING COST FOR 12 MONTHS, APRIL 1, 1896, TO APRIL 1, 1897.

There are now 64 lamps in the circuit, besides the one in the opera house and two in the paper mill.

Superintendent	\$ 180 00
Treasurer.....	20 00
Labor, Charles Munson.....	\$ 765 00
“ Thomas J. Bredt.....	405 34
“ M. Manion.....	63 52
“ W. W. Reynolds.....	214 30
	<hr/>
Coal.....	951 35
Carbons.....	259 67
Repairs, lamps and line.....	\$ 180 01
“ engine.....	34 75
“ dynamos.....	10 80
“ station.....	20 52
“ boilers.....	18 35
	<hr/>
Janitor.....	3 50
Oil, waste and packing.....	102 84
Insurance—fire and boiler.....	64 51

HERKIMER MUNICIPAL COMMISSION.

11

Office rent and fuel.....	17 96
Printing and stationery.....	20 97
Miscellaneous	27 55

Total..... \$3,360 94

Less received from Deimel & Schermer for opera house lamp and Herkimer Paper Co. Deducted because we do not count these lamps in figuring cost per arc light.....	34 75
--	-------

Actual operating expenses.....	\$ 3,326 19
Interest on outstanding bonds for 12 months.....	560 00
Added for change of boiler.....	406 56

Total.... \$ 4,292 75

We formulate as a matter of general interest three propositions :

First Proposition—Actual operating ex-
penses, 64 lamps.....\$3,326 19 or per lamp \$51 97

Second Proposition—Actual operating
expenses 64 lamps.....\$3,326 19
Add one year's interest on bonds..... 560 00

Operating expenses and interest.....\$3,886 19 or per lamp \$60 72

Third proposition—Operating expenses
and interest for 64 lamps.....\$3,886 19
Add 5 per cent. depreciation on plant,
\$17,657 62 882 88

Operating exp., int. and depreciation.\$4,769 07 or per lamp \$74 51

In comparing municipal plants with those of private ownership it is usual to estimate the amount of annual taxes which the latter are required to pay. If we make this addition it will increase the last amount by \$1.50, or a total of \$76.01.

Actual hours light furnished, 12 months, 3,079.

Candle power per hour furnished for one cent :

First proposition as above.....	1,185
Second " "	1,014
Third " "	826

Cost per lamp per hour :

First proposition, cents.....	1 69 100
Second " "	1 97 100
Third " "	2 42 100

Pounds of coal consumed, 12 months..... 816,000

No. of miles of street lighted..... 12

Plant consists of :—

One horizontal 6x16 boiler with necessary pumps and fixtures, used in connection with water system, and one 6½x18 boiler.

One 100 h. p. Ball tandem compound engine.

Two Edison 50 arc dynamos.

Necessary switchboards, lightning arresters, etc.

Twenty-one T. & H. double carbon lamps.

Twenty-three Edison single carbon lamps.

Twenty daylight single carbons.

Two hundred and eighty-one poles.

Ten mast arms.

Water Maintenance Account.

FOR TWELVE MONTHS.

Superintendent's salary.....		\$	270	00
Treasurer's salary.....			30	00
Labor, J. Harder.....	\$	93	72	
“ William Crego.....		520	00	
“ J. Kelley.....		8	00	
				\$ 621 72
Hardware and general expense.....			182	47
Oil, packing and waste.....			100	10
Repairs, pipe line.....	\$	131	34	
“ pumps and boilers.....		41	91	
“ tank.....		19	50	
“ building.....		46	84	
				239 59
Coal.....			1,336	64
Books and stationery.....			56	70
Grading lot.....			68	31
Postage.....			14	50
Office rent and fuel.....			26	95
Insurance.....			42	09
Miscellaneous.....			64	76
Total operating expenses.....	\$	3,053	83	
Interest on outstanding bonds, 12 months.....		1,995	00	
Charged for new boiler change.....		406	56	
Total	\$	5,455	39	

RECEIPTS—CREDITED.

From water rents, cash.....	\$6,771 41	
“ accounts turned.....	106 30	
“ miscellaneous.....	3 28	\$6,880 99
Charged sewer maintenance.....	256 18	
“ fire “	10 00	7,147 17
Balance credit.....		\$1,691 78

Pounds coal consumed.....		1,146,500
“ “ per 1,000 gallons water.....		7 $\frac{61}{100}$
Total gallons of water pumped.....	150,518,889	
Less 20 per cent. for wastage between pump and consumer.....	30,103,777	
Net.....		120,415,112
Hours actually pumped.....		4,249
First Proposition—Actual operating expense.....		\$ 3,053 83
Second “ —With interest on bonds added....		5,148 83
Third “ —Interest and 5 per cent. deprecia- tion on \$70,879.24.....		8,692 79
Cost 1,000 gallons water, first proposition in cents...		2 $\frac{54}{100}$
“ “ “ “ second “ “ ...		4 $\frac{28}{100}$
“ “ “ “ third “ “ ...		7 $\frac{22}{100}$

System consists of :—

One Knowles Compound Duplex pump, 11x18 $\frac{1}{2}$ x12x12.

One “ “ “ “ 12x18 $\frac{1}{2}$ x10x12.

Two “ Vacuum pumps.

One “ Feed water pump.

One horizontal tubular boiler, 6x16, with necessary fixtures, used in connection with light system, and one 6 $\frac{1}{2}$ x18 boiler.

Eight inch pipe.....	8,320 feet
Six “ “	10,000 “
Four “ “	27,520 “
Three “ “	400 “
One and one half inch pipe.....	528 “
Total pipe in streets.....	46,768 feet
Eight inch valves.....	10
Six “ “	10
Four “ “	42
Total valves.....	62

*FIGURES SHOWING PER CAPITA CONSUMPTION, RECEIPTS
PER 1,000 GALLONS, Etc.*

No. of net gallons delivered as above.....		120,415,112
Less used by sewer system.....	1,518,360	1,518,360
Total gallons consumed.....		118,996,752
Estimating the population at 5,000 equals 66 gals. per day per capita.		
No of taps.....		735
Gallons average per tap for 12 months.....		163,830
“ “ “ “ per day.....		449
Meters in use.....		26
Gals. water metered from Jan. 1, '96, to Jan. 1, '97..		9,600,108
Received for same.....		\$1,011 58
Average receipt for 1,000 gals. metered water..		10 $\frac{53}{100}$
Gallons of unmetered water for 12 months.....		109,396,644
Receipts for same as follows :		
By M. C. April 1, '96, to April 1, '97, cash	\$6,771 41	
By “ “ “ “ “ sunds	109 58	\$6,880 99
Less for metered water.....		1,011 58
Total received for 109,396,644 gals. unmetered water..		\$5,869 41
Average receipt for 1,000 gallons,.....		5 $\frac{37}{100}$ cents

Hydrants belonging to the system as follows :

1. North side of German street, opposite Main.
2. Main, near residence of B. Patrick.
3. Main, opposite Court street.
4. Corner Main and Merry streets.
5. Main, opposite the Bank.
6. Corner Main and Liberty streets.
7. Corner Main and Albany streets.
8. Main, opposite Mohawk street.
9. Main street, opposite George.
10. South side Smith street, opposite Main.
11. Corner Washington and Steele streets.
12. Corner Washington and Smith streets.
13. Corner Washington street and Perry lane.
14. Washington, opposite Aaron Snell's.
15. Corner Washington and Albany streets.
16. Washington, opposite Greene street.
17. Washington, opposite Mary street.
18. Corner Washington and Church streets.
19. Corner German and Prospect streets.
20. Corner German and Washington streets.
21. Corner Prospect and Church streets.

22. Prospect street, opposite Quackenbush's shop.
23. North side of Albany, on Prospect.
24. Mohawk street, near residence of Casper Gloom.
25. Mohawk street, between 2nd and 3rd avenues.
26. Mohawk street, near Park House.
27. Second avenue, at north end.
28. First avenue, opposite David Nichols' residence.
29. Bellinger street, near Central Railroad.
30. Corner Bellinger avenue and Bellinger street.
31. Corner Bellinger and Church streets.
32. Corner Bellinger and German streets.
33. German street, near H. H. Bellinger's residence.
34. German street, near cheese factory.
35. Corner German street and Dorf lane.
36. Dorf lane, near paper mill.
37. Corner Dorf lane, at paper mill.
38. Steuben road, near Wm. Smith's residence.
39. Corner German street and Eastlake avenue.
40. Corner German and Lake streets.
41. Lake street, opposite Orrin Cole's residence.
42. Albany street, west side hydraulic canal.
43. Albany street, opposite King street.
44. Corner Eastern avenue and King streets.
45. Eastern avenue, near Charles Ives' residence.
46. Smith avenue, near Charles Bates' house.
47. Eureka avenue, at end of line of pipe.
48. Corner Smith and King street.
49. Corner Smith and Pine streets.
50. Corner George and William streets.
51. Corner Smith and Bellinger streets.
52. Eastern avenue, at end of pipe, west of hydraulic.
53. Westlake street.
54. German street, near Horrock's factory.
55. Church street, near Graham Bellinger's residence.
56. Church street, near H. H. Batchelder's residence.
57. Caroline street, north of Church.
58. Deimel street, north end.
59. Corner King and Perry streets.
60. Corner King and Steele streets.
61. Steele street, between Washington and King.
62. Stimson street, at end of line.

Private hydrants as follows :

- Standard Furniture Company, 1.
- Deimel & Snell, lumber yard, 1.
- Morris Mark, mill, 3.
- Public water fountain, 1.

Sewer Maintenance Account.

Superintendent's salary	\$ 270 00
Treasurer's salary	30 00
Labor on man-holes and catch basins	128 16
Stationery and printing	21 61
New catch basin	50 93
Repairs	54 79
Surveying	7 36
Office rent and fuel	26 95
Sundries for office	28 58
Water for flushing, credited to water maintenance acc't..	256 18
Postage, etc.	7 63
Net operating cost	\$ 882 19
Add 12 month's interest on bonds	2,317 50
Total	\$3,199 69

Police Maintenance Account.

CHARGES.

Superintendent's salary	\$ 90 00
Treasurer's salary	10 00
Police salaries, J. T. Manion, chief	\$ 720 00
" " W. F. Perry	600 00
" " L. H. Lacy	567 34
" " Specials	142 58
E. B. Mitchell, police justice	500 01
Uniforms	51 50
Rent, police headquarters	50 00
Fuel " "	22 75
General expenses	66 08
Furniture	5 66
Stationery and printing	8 71
Office rent and fuel, Municipal office	8 98
Postage	57
Miscellaneous	20 79
Total expenditures	\$ 2,864 97

CREDITS.

Received from E. B. Mitchell.....	\$ 178 80	
Due from E. B. Mitchell.....	3 00	
Received from Town of Herkimer.....	204 65	
Due from Town of Herkimer.....	152 90	
“ “ County of Herkimer.....	10 65	
	<hr/>	
Total credits.....		550 00
		<hr/>
Net operating costs.....		\$2,314 97

Fire Maintenance Account.

Superintendent's salary.....	\$ 90 00	
Treasurer's salary.....	10 00	
Fire expenses :		
Handling carts and trucks at fires....	\$ 30 10	
Cleaning and drying hose by firemen.	32 70	62 80
	<hr/>	
General expense and repairs to fire alarm and supplies for batteries.....		76 63
E. D. Small, chief, 12 months.....		100 00
Rents for companies and hose carts.....		306 00
Gas		57 80
Hose nozzles and jackets.....		16 00
Insurance		15 00
Fuel for engine house.....		5 00
Fuel furnished companies.....		45 25
Stationery		7 21
Rent of office and fuel for Commission.....		8 98
New uniforms and depreciation on old.....		159 50
Miscellaneous		2 55
New hose and nozels.....		282 35
Water in exchange for use of bell M. E. church.....		10 00
		<hr/>
		\$1,255 07
Less received rent engine house for election.....		23 50
		<hr/>
Net cost maintenance.....		\$1,231 57

Schedules.

SCHEDULE A.

CHARGES TO WATER SYSTEM.

New well—Labor.....	\$	772	00	
Stone.....		242	41	
Pipe.....		238	05	
Lumber.....		129	99	
Coal.....		139	80	
				\$1,522 25
Work grading lot.....				62 36
Corporation cocks and labor.....				64 43
524 ft. 4-inch pipe, South Main St., 1 valve and hydrant				209 32
360 ft. 3-inch pipe for condenser.....				74 42
Meter, 3/4-inch.....				12 40
New boiler and building.....				675 00
				\$2,620 18

SCHEDULE B.

ADDITIONS TO LIGHT SYSTEM.

Mast arms.....	\$	52	86
Wire.....		64	88
Labor and carting.....		6	35
New boiler and building.....		675	00
			\$ 799 09

SCHEDULE C.

LIGHT MAINTENANCE.

INVENTORY MATERIAL, ETC., ON HAND.

Carbons.....	\$	7	50	One wrench.....	40
17 insulator pins.....		5	1	" pair plyers.....	65
Two pair climbers.....		3	50	Two switches.....	50
One pole yoke and pike.		1	50	34 incandescent lamps..	3 40
" pole Y.....			50	One pair shears.....	50
Pulley blocks.....		2	50	" oil filter.....	5 00
One engine ring.....		2	00	" set oilers.....	2 00
" vise.....		1	50	" set copper oilers...	1 50
Four magnets.....		6	00	" pail.....	10
Two cut outs.....		6	50	" cot.....	2 00
Lamp repairs.....		18	00	Hardware.....	50
Three globes.....		2	00	Rubber gloves.....	1 50
One stove.....		3	50	One set brushes.....	2 50
" cupboard.....		4	00	Four poles.....	15 50
100 lbs. copper wire...		14	25	Two magneto bells.....	15 00
Five series lamps.....		15	00	Insurance.....	3 52

One bench.....	1 00	Two arc lamps.....	25 00
“ ladder.....	2 50	One tree trimmer.....	1 00
“ reel.....	2 00		-----
Two T. H. hoods.....	9 00		\$191 83
75 insulators.....	3 00	Add one half schedule I.	170 69
Two steel bars.....	2 00		-----
One cable.....	3 00		\$362 52

SCHEDULE D.

WATER MAINTENANCE. INVENTORY MATERIAL, ETC., ON HAND.

One valve box.....\$	3 50	Five plugs 8 in.....	3 82
“ “ 4 inch.....	7 50	Two “ 6 in.....	90
“ ½ inch meter.....	9 00	One increaser 6x8.....	2 50
Two ¾ inch “.....	24 80	One reducer 8x6.....	1 75
Seven picks and handles	3 50	“ “.....	2 50
Six shovels.....	2 00	Two Ys 8x8.....	11 92
One lot hydrant seats...	3 00	One Y 8x4.....	5 96
“ wrench.....	1 00	Three wr't couplings...	1 30
“ steam pump.....	35 00	One length cast pipe 8 in	10 31
“ oil cup.....	1 75	11 feet cast pipe 8 in...	9 45
Pipe and fittings.....	25 00	One tee 8 in.....	6 25
Three valves, 2 inch....	6 00	“ malleable union 4 in	1 50
Ten pounds Babbitt....	1 00	Two steam way valves 6 in	30 00
Valve springs.....	24 00	Quantity pipe and fittings	20 00
Three valve wrenches...	4 00	“ lumber.....	5 00
One water gauge.....	13 00	One matox.....	50
Two pieces 4 in cast pipe	4 50	“ spade.....	35
41 pieces 6 in cast pipe.	78 78	“ bush scythe.....	25
One elbow 6 in.....	2 38	Two canal barrows.....	1 50
Two tees 6x4.....	10 80		-----
Four tees 8x4.....	27 80		\$427 37
Five sleeves 8 in.....	12 00	Add one-half schedule I.	170 70
Three sleeves 6 in.....	5 00		-----
Five sleeves 4 in.....	6 30		\$598 07

SCHEDULE E.

SEWER MAINTENANCE. INVENTORY MATERIAL, ETC., ON HAND.

One steel tape.....\$	2 00	35 Ys 12 inch.....	27 30
1¾ ton coal.....	4 50	33 Ys 8 inch.....	13 37
One broom.....	25	Two Ys 20 inch.....	4 05
“ shovel.....	25	One increaser 8x10.....	50
“ wrench.....	45	One reducer 10x8.....	50
“ piece pipe.....	10	Two bends 20 inch.....	3 00
Quantity wood.....	1 00	Six tees 12x12.....	5 40
Fire tools.....	25	Two tees 10x20.....	4 05

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Oil cans	15	Manhole caskets.....	1 08
Quantity packing.....	50	One stepladder.....	50
600 brick	3 50	“ section catch basin..	4 00
172 ft. 20 in. pipe.....	75 40		
76 ft. 18 in pipe.....	26 60		\$178 94
Two pieces 12 in. pipe.	24		

SCHEDULE F.

POLICE MAINTENANCE. INVENTORY MATERIAL, ETC., ON HAND.

Four overcoats.....\$	25 00	Three pairs handcuffs...	6 00
“ summer coats....	10 00	Four twisters.....	2 00
Three helmets.....	6 00	Three police clubs.....	50
140 police manuals.....	4 00	One desk.....	1 50
Five call whistles.....	2 00	“ “	17 00
One chair.....	2 00	“ record book.....	1 50
Two chairs.....	1 00		
One bicycle.....	45 00		\$129 50
Seven badges.....	4 00		

SCHEDULE G.

FIRE MAINTENANCE. INVENTORY MATERIAL, ETC., ON HAND.

75 hose washers.....\$	3 75	One hand-cart	4 00
One chamois.....	40	Six hose nozzles.....	50 00
“ fire engine.....	1250 00	One back pressure valve.	40 00
“ hook & ladder truck	500 00	Four hydrant wrenches..	4 00
1,800 feet hose.....	450 00	20 hose wrenches.....	10 00
500 “ new hose....	250 00	Three Ys.....	2 25
Three hose carts.....	40 00	36 parade suits.....	300 00
One globe stove.....	1 50	34 working suits.....	250 00
“ stove	25 00	Fire alarm supplies.....	4 00
Three Cooper hose jackets	60 00		
Chemicals	3 00		\$3,251 90
One hose sleigh.....	4 00		

SCHEDULE H.

GENERAL EXPENSE ACCOUNT. INVENTORY.

One ledger.....\$	1 50	One stove and fittings..	20 00
Three copy books.....	3 50	“ chair	4 00
One desk.....	15 00	“ towel rack.....	25
“ “	7 00	Six towels.....	30
Building	144 80	Books and stationery...	5 00
Plumbing	80 00	One half ton coal.....	2 38
One waste basket.....	50		
“ burner.....	2 00		\$286 43

SCHEDULE I.

GENERAL INVENTORY.

One pair telephones.....\$	25 00	One scraper	1 00
40 pounds waste.....	2 40	Soda ash.....	4 00
10 " ring packing.	7 50	Fire clay.....	50
Three lbs. sheet rubber..	1 20	One oil pump.....	1 00
One table.....	4 00	Three hammers.....	1 00
Three cuspidors.....	1 00	One saw.....	25
Three chairs.....	1 50	" maul.....	50
Two 1-barrel oil cans...	10 00	40 gallons cylinder oil..	12 00
Four pipe wrenches....	6 00	83 " engine oil....	10 79
One pair chain tongs...	5 00	Two cast boiler doors..	6 00
" vise	7 00	Three chairs.....	1 00
" screw wrench.....	1 00	One 60 h. p. boiler....	150 00
" eight-day clock....	4 00	Fire brick.....	2 50
Fire tools.....	2 50	One flew blower.....	6 50
One fire hoe.....	75	" stock and dies....	4 00
" lawn rake.....	25	" pipe cutter.....	1 00
" hoisting tackle.....	5 00	Calking tools.....	1 00
Two scoops.....	1 50	One level.....	75
Nine grate bars.....	19 00	" lubricator	2 50
One steel barrow.....	8 00	" lawn mower.....	5 00
" stepladder.....	50		
75 feet hose.....	5 00		
One flue cleaner.....	12 00		
			\$341 39

Report of Chief of Police.

Showing number of arrests for the year, character of offence charged and disposition of prisoner :

OFFENCE CHARGED:

Disorderly	97	Bastardy	1
Seduction	1	Defrauding boarding house.	8
Petit larceny.....	10	Exposure of person.....	3
Assault, 3rd degree.....	17	Violation Sec. 382 P. C...	1
Violation of excise law....	1	Misdemeanor	2
Rape	1	Violation rules B. of H....	1
Violation village ordinance.	1	Search warrant.....	1
Vagrancy	16	Violation of game law.....	1

SENTENCE.

Suspended.....	77	Albany penitentiary.....	8
Paid fine.....	21	County jail.....	13
Charge withdrawn.....	23	House of refuge.....	2
County house.....	3	Gave bonds.....	1
Discharged	14	Held for grand jury.....	2

Rules and Regulations for the Use of Water.

I. *Applications for Water.*—All applications for the introduction or supply of water to any premises, or for the extension of any pipe for the conveyance of such water, must be made in writing on the books of the Commission, and if the applicant is not the owner of the premises, the written consent of the owner must accompany the application.

When more than one building, or one tenant, is supplied through one service pipe, the application for the supply of such buildings, or tenants, shall be made by one person, and said person shall be held responsible for all supplies through said service pipes.

II. *No Permits.*—No permits will be granted for baths, water closets, or wash basins, when it is not also taken for household or office purposes.

III. *Plumbing.*—The introduction of service pipe for the supply of premises with water, and all plumbing of every description, for the use or distribution thereof, must be done by plumbers licensed by the Commission, and who shall be under bonds to the Commission for the faithful performance of their work, in accordance with the Rules and Regulations of the Commission.

Penalty.—For any violation of this rule a penalty of ten dollars will be incurred, and the use of water will not be allowed on the premises until the same is settled.

IV. *Applications for Additions and Alterations.*—No addition or alteration whatever, in or about public or private pipes, shall be made by any person until the application therefor has been made on the books of the Commission, and a written permit given by the Superintendent or Secretary.

Penalty.—For any violation of this rule a penalty of ten dollars will be incurred, and the flow of water will be stopped until the same is settled.

V. *Commission Not to Connect.*—The plumbing on the premises to be supplied with water must be completed before any connection with the mains shall be made; and the Commission reserves the right to

decline to connect with plumbing not in accordance with the Commission's Rules and Regulations.

VI. *Openings and Work in Streets.*—The street must be opened and the paving stones and earth deposited in a manner that will occasion the least inconvenience to the public and provide for the passage of water along the gutters; the paving and flagging must be restored as quickly as possible to as good condition as previous to the excavation, and all work in the streets in making service connections and repairs, must be at the sole risk and responsibility of the person having the same done, or of the plumber doing the same.

VII. *Owner or Tenant Must Not Supply Other Persons. Must Have Independent Service, Except by Permission. Where Two or More Are Supplied by One Service.*—No owner or tenant of any premises supplied with water by the Works will be allowed to supply water to other persons or families; if found so doing the supply will be stopped and the amount paid forfeited; and except where special permission is granted by the Commission, each consumer must be supplied by independent service pipe from the main. In case two or more parties are supplied with water from the same service, if either of the said parties fail to pay the water rates when due, or to comply with any rule of the Commission, the Commission may turn off the water from such pipe until the rent is paid and the rule strictly complied with.

VIII. *Service Pipe and Fixtures Subject to Approval of Commission. Service Cock.*—All lateral or service pipes, for public or private use, and all necessary fixtures connected therewith, shall be subject to the approval and laid under the supervision of the Superintendent; said pipes, etc., should be laid not less than four feet deep, and must be kept in good repair, and must be protected from the frost by and at the expense of the applicant. All connections with the street mains will be made by the Commission, and there shall be a suitable stop-cock, with well and cover, as prescribed and provided by the Commission, for which the applicant must pay the commission at the time of making such application. Such connection will be regarded as a part of the main pipe, and will belong to the Commission; also, in all cases, a stop-cock with well and cover, shall be put in at the curb, or outer edge of the walk, and another, with waist, inside of cellar wall.

IX. *Use for Protection.*—The Commission has the right to use any of the service cocks when necessary for its own protection.

X. *Turning on Water.*—No plumber or consumer shall turn on water to any premises, whether old or new supply.

XI. *Notice when Connection to be Made or Water Turned Off.*—Notice must be left at the office of the Commission the day before any service is to be put in, stating the street and the number of the location and the name of the person owning or occupying the premises, and the exact time when the trench will be ready for making the connection; and a like notice must be left when water is to be turned on to any premises.

XII. *Streets and Lawn Sprinklers.*—The season for the use of water for street or lawn sprinklers, or yard fountains, begins May 1st and expires on November 1st.

No abatement in the regular charge will be made for any fractional part of the term.

The use of hand hose for street sprinkling will not be allowed between the hours of 9 a. m. and 4 p. m.

All hose attachments, if used as sprinklers, will be charged in addition as sprinklers, and subject to the rules regarding sprinklers.

Street sprinklers or washers, must not be used to sprinkle beyond the center of the street, or the limits of the premises of those paying for them ; or for filling cisterns, or converted into jets, or be used for washing down the collections of the gutters upon neighboring premises, or used to flood the streets, but merely to sprinkle them, and must not be permitted to run except when in actual use ; and it is expressly understood that the water paid for as street or lawn sprinklers, cannot be used for any other purpose, except in case of fire ; and parties so using it are liable to have the water turned off without notice.

XIII. *Waste Water.*—Taps at sinks, wash basins, water closets, baths, urinals, sprinklers. and for other uses, must be kept closed when not in actual use, and must not be allowed to leak.

XIV. *Fountains*—No yard fountain, or jet, shall be used longer than six hours a day for six months in the year, without special arrangement ; and the application shall state at what hours it shall be used, and if found running at any other time the water will be shut off from the premises.

XV. *Inspection of Premises.*—The Superintendent personally, and any person delegated by him for that purpose, must at all reasonable hours have free access to all parts of the premises to which water is delivered, for the purpose of inspection, examination of fixtures, etc., and all persons using water must, at all times, frankly, and without concealment, answer all questions put to them relating to its consumption.

XVI. *Vacating Premises. Transfer of Balance of Rates Paid.*—Consumers vacating their premises must give notice at the office of the Commission, that the water may be shut off ; and they will be held responsible for the water rate until such notice is given. Where there is a change of occupants, the balance of a bill paid in advance may be transferred, on notice at the time, to other premises for the same uses, but no balance of a bill will be refunded.

XVII. *Leaks.*—When leaks occur in service pipes at any point beyond the main pipe, they must be immediately repaired by the owner or occupant ; and if not repaired within a reasonable time, after notice, the water will be shut off until repaired.

XVIII. *Payment of Water Rates.*—All water bills shall be paid on the first day of April and October, at the office of the Commission, in advance ; street washers, fountain and yard sprinklers, payable on the

first day of May for the season. All bills must be paid within thirty days from date of same, or water will be turned off without notice. When meters are used, the estimated amount shall be paid in advance, subject to meter measurement.

XIX. *Water Closets.*—None but self-closing water closets or urinals shall be used, which must be subject to the approval of the Superintendent.

XX. *Fraudulent Misrepresentations, Uses, Waste, Etc.*—In case of misrepresentations on the part of the applicant, or of uses of water not embraced in the application, or of willful or unreasonable waste of water or violation of any of the Rules and Regulations of the Commission, or non-payment of rates when due, in addition to the penalties hereinbefore imposed, the water will be cut off without notice, and the payments will be forfeited, and the water will not be turned on again unless upon satisfactory assurance that no further cause of complaint shall arise and the payment of such penalty as the Commission shall impose; and the sum of one dollar will be charged for turning on the water again.

XXI. *Check Valve.*—All house and other boilers shall be fitted with a suitable check valve to prevent accidents from collapse or damage in case the water is suddenly drawn off from the main pipes.

XXII. *Meters.*—The Commission reserves the right to attach meters at any time whenever they shall deem it expedient, and charge for the quantity of water measured, or used, instead of the special rates. A reasonable charge will be made for the use of the meters.

XXIII. *Deficient Supply.*—The Commission reserves the right to shut off the water for alterations, extensions and repairs, and to stop and restrict the supply of water whenever it may be found necessary; and the Commission shall not be liable, under any circumstances, for the deficiency or failure in the supply of water, whether occasioned by shutting off the water to make repairs, or connections, or for any other case whatever.

XXIV. *No Rebates for Partial Uses.*—No rebate from rates will be allowed for partial use of water from wells, cisterns, etc.

All fixtures for the supply of water for which the Commission have regular rates, must be paid for or disconnected from service pipe.

XXV. *Changing Rules and Rates.*—The Commission reserves the right to change the Rules and Regulations and the rates for the use of water from time to time, and to make special rates, or contracts, in all proper cases.

XXVI. *Right to Use Water as Agreed Only.*—The Commission agrees to furnish water on certain terms for certain specified uses, for a certain sum.

Therefore, the consumer will not be permitted to use it for any other purpose than that stated in the agreement.

Rules for Plumbers.

1. In no case must a plumber turn on water for a consumer without the written consent of the Commission, under a penalty of ten dollars.
2. The Commission will furnish and put in Corporation Taps, and no other person will be allowed to tap the mains.
3. The tapping will be done at the expense of the applicant.
4. All service pipes from the mains to the curb stone must be equal in strength to "AA" lead pipe. Where service pipe of a more rigid material than lead pipe is used; it must be connected with the mains by at least two feet of lead pipe, and the stopcock at the end must have nut and washer.
5. The service pipe must be laid at least four feet below the surface of the street, and in such a manner as to prevent rupture by settling, and must be provided with a stopcock at the curb stone in all cases, whether a street washer is attached or not, protected by a box leading from the same to the surface, with an iron cover, with the word "water" marked thereon and so exposed as to be readily found; the whole to be subject to the approval of the Commission.
6. Notice must be left at the office of the Commission on the day previous to the one on which the tapping will be required, stating the hour when the street will be open at the main; and after the tapping is done, the connections must be made, and the street and pavement put in good condition, and all rubbish removed with as little delay as possible.
7. All service pipe shall be at least one-eighth of an inch larger in the interior than the Corporation Tap.
8. A stop and waste cock must be located inside the building, and the pipes so arranged that the water can be drawn from them whenever there is danger of its freezing.
9. No plumber will be allowed to open the street for the introduction of service pipe without a written permit from the Commission; and the water must not be turned on for use until an application has been signed at the office of the Commission, stating fully the purposes for which the water is to be used.
10. No addition or alteration whatever, in or about any public or private pipe, conduit, water cock or other fixtures, shall be made by any person without permission first had in writing from the Superintendent. Any plumber or other person making such addition or alteration, shall be subject to a penalty of ten dollars for each offence.
11. Each plumber will be provided with blanks which are to be filled out and returned to the office of the Commission as soon as the work is completed.
12. On the first day of May in each year, any plumber wishing to engage in repairs of Herkimer water pipes, or laying new services,

must obtain a permit from the Commission, and in case of a violation of any of the above rules, the permit will be revoked.

13. All house and other boilers shall be fitted with a suitable check valve to prevent accidents from collapse, or damage in case the water is suddenly drawn off from the main pipes.

Tariff of Annual Rates.

BATHS.		LAUNDRIES.	
Public, each tub.....	\$ 15 00	General Purposes	10 00
Hotel,	10 00	MECHANICAL SHOPS.	
Boarding Houses, each tub.....	5 00	Not exceeding 25 hands.....	8 00
Private Dwellings.....	3 00	Each additional hand.....	10
" each additional tub	1 50	Water Closets, each.....	6 00
BARBER SHOP.		Urinals, each.....	3 00
First Chair.	4 00	MALT HOUSES—(Special Rates.)	
Each additional chair.....	1 00	MARKETS.	
BAKERIES.		Meat or Fish.....	4 00
One Faucet.....	6 00	OFFICES.	
Provided that no bakery shall		Law.....	4 00
pay less than \$6.00 per annum, ex-		Physician.....	4 00
clusive of charge for steam boil-		Dentist	6 00
ers.		Bath Tub.....	3 00
BOARDING HOUSES.		Water Closet.....	3 00
From	\$5.00 to \$20 00	Urinal	3 00
Baths, per tub.....	5 00	PRINTING OFFICES.	
Water Closets, each.....	6 00	For ten hands or less.....	10 00
" each additional....	3 00	Each additional hand.....	1 00
Urinals, each.....	4 00	(Exclusive of Steam Engine.)	
BUILDING PURPOSES.		PHOTOGRAPH GALLERIES.	
Laying stone, per cubic yard....	3 cts	One Faucet.....	6 00
Laying brick, per thousand.....	4 cts	RESTAURANTS AND SALOONS	
Plastering, per 100 square yards..	20 cts	One Faucet.....	10 00
BLACKSMITH SHOPS.		SLEEPING ROOMS.	
One Fire	4 00	In Blocks or Stores, each.....	4 00
Each additional	1 00	Bath Tub	3 00
DWELLINGS.		Water Closet.....	3 00
For a family, in a house, one		Urinals	3 00
faucet.....	4 00	SCHOOLS—(Not Boarding.)	
For each additional faucet (not		For 25 scholars or less..	6 00
including bath tubs or water		Each additional scholar.....	05
closets)	1 00	SODA FOUNTAINS.	
FOUNTAINS.		One Faucet.....	8 00
(To be used 6 hours per day for 6		STEAM ENGINES.	
months in the year.)		Per horse power, up to 15 horse	
1-16 inch delivery.....	5 00	power.....	
Each additional jet of 1-16 inch..	3 00	Each additional horse power....	
1/8 inch delivery.....	8 00	STORES.	
Each additional jet of 1/8 inch....	4 00	Provision, Drug, Grocery and	
GREEN HOUSES.		Liquor.....	4 00
Private	4 00	Other Stores	4 00
Public	10 00	STABLES.	
HOTELS.		Livery, Omnibus and Boarding,	
From..	\$5.00 to \$30 00	stalls, each.....	1 00
Bath Tubs, each.....	10 00	Private, with water for washing,	
Water Closets	6 00	not exceeding one horse	2 50
Urinals	3 00	Each additional horse.....	50
Wash basins in sleeping rooms,		Each cow	50
whether supplied by faucet or		Hotel Stables, per stall.....	50
carried to rooms.....	50		

SPRINKLERS—Street, See Rule 12.
 One Front, not exceeding 50 feet 2 50
 Each additional foot above first
 50 feet, per running foot..... 05
 If on corners, additional to
 above, per foot..... 2½ cts.
 All Hose Attachments to be
 charged as sprinklers.

SPRINKLERS—Lawn or Garden.

For watering Lawns or Gardens,
 and washing inside walks,
 stoops and outside of buildings,
 included in street sprinkling..

If revolving or movable sprink-
 lers are used, one-half the
 above rate will be added.

WASHTUBS.—Permanent.

In use for not more than eight
 persons 1 00
 Per each additional..... .. 1 00

WATER CLOSETS.

Private Dwellings..... 3 00
 Banks 6 00
 Saloons 10 00

Sewerage Ordinance.

SECTION I. The Board of Health and the Municipal Commission, or either of such Boards shall have power to stop and prevent the discharge of sewerage from any premises in the village of Herkimer into, or upon any public highway, stream, water course or public place, or into any drain, cess-pool or private sewer, or to order a connection to be made with the public sewer, for the removal of sewage from any premises whenever in the opinion of either of such Boards the public interest demands it; and any person who shall neglect or refuse to comply with the order of such Board within ten days from the service of notice that any such order has been made, shall be guilty of a misdemeanor, and shall pay a fine of not less than \$10, nor more than \$50, upon conviction thereof.

SECTION II. It shall be a misdemeanor to do, or cause to be done, any of the following acts, except as hereinafter provided; and any and all persons guilty thereof shall be liable upon conviction to pay a fine of not less than \$5, nor more than \$50 for each offense.

1. To uncover the public sewer for any purpose, or make connections therewith, or to uncover the public inspection or connection branches thereof, or to open any manhole, or flush tank, unless and except with the written consent, and under the supervision of the Municipal Commission or its authorized agent.

To do or cause to be done any injury of any kind in any manner to the pumping station building, the engine and pumps or any connection therewith, or outlet pipe or any part of the apparatus, or any other of the appliances, connections, or parts of the public sewers.

2. To make or cause to be made any connection for the removal of sewerage from any premises with the storm water drain of the village or with any stream or water course within the limits of the village.

3. To make or cause to be made any connection with a house connection, or to connect any closet with a branch of the public sewer, except under a written license for the work signed by the Municipal Commission or its duly authorized agent.

4. To make or cause to be made any such connections, by any person than a mechanic, duly authorized to do such work by the Municipal Commission or the Board of Trustees of the Village of Herkimer or to make any such connections in any manner other than as follows, to wit :

(a) Every pipe connecting with the sewer from a point five feet outside the foundation walls of the building proposed to be connected must be either of heavy cast iron, or of salt glazed vitrified earthenware ; must be sound and impervious in all its parts ; must be proportionately laid on a true grade as nearly as possible in a straight line ; all changes in its direction must be made with properly curved pipe ; must be jointed in the best manner, and covered to a depth of at least one foot with well rammed fine earth, entirely free from stone and rubbish, within forty-eight hours after the back filling of the trench is completed the paving or ballast must be replaced and the street left in the best condition to the satisfaction of the Municipal Commission, or its duly authorized agent, and in no case shall the public sewers be used by any private individual, until the connections therewith have been inspected and approved by the Municipal Commission or its duly authorized agent, and permission in writing for such use as has been granted by the said Municipal Commission or its duly authorized agent.

(b) In all cases gaskets must be used to prevent cement or lead from running into the pipes.

(c) No drain connected with the sewer shall be laid with a less inclination or grade than one in sixty without the written permission of the Municipal Commission or its duly authorized agent.

(d) All drains connected with the public sewer shall be at least four inches in interior diameter. No earthenware pipe shall be laid less than two feet six inches deep. Pipes laid at less depth than the above shall be of heavy cast iron with well caulked lead joints.

(e) No person or corporation shall hereafter lay any pipe or conduit for any purpose whatsoever in any street within five feet on either side of the public sewer in such street without the permission of the Municipal Commission.

(f) No more than one building shall be connected with the public sewer through one drain without special permit signed by the Municipal Commission or the president thereof.

(g) In opening trenches on any street or public way, the paving or ballast must be removed with care ; the sides of the trench must be sheeted or braced when directed, by the Municipal Commission or its agent, the earth thrown from the trenches must be placed so as to cause the least obstruction possible to public travel, gas and water pipes must be protected from injury and the trench enclosed and lighted at night, and every precaution necessary, taken to prevent in-

jury to persons and property, during the progress of the work as it shall be directed by the Municipal Commission or its duly authorized agent.

(h) Any settlement over a drain connecting with the public sewer occurring within ninety days after it has been laid shall be repaired at the expense of the owner of the property from which such drain has been laid.

(i) Notice must be left at the office of the Commission or its agent at least twenty-four hours before the beginning of any work upon a drain, and no material shall be used or work covered until inspected by the Commission or its duly authorized agent.

(j) Permits to make connections with the public sewers shall be issued only when the plumbing in the house or building to be connected is in accordance with the rules for plumbing hereinafter described.

SECTION III. Before any building can be connected with the public sewer the plumbing in such building shall be inspected by the Board of Municipal Commission or its duly authorized agent and approved by him and a certificate of such approval filed in the office of the Commission. Under no circumstances can any mechanic doing the work of plumbing or house drainage, or any employee of such mechanic act as the agent of the Commission to perform the duties prescribed in this ordinance.

(a) All pipes from the sewer connections to the top of the soil pipes must be fully three inches in diameter at every point.

(b) No trap or manner of obstructions to the free flow of air through the whole course of the drain and soil pipes will be allowed, and any mechanic or other person who shall directly or indirectly place, make, cause or allow to be placed or made any trap, obstruction, contraction or other obstacle anywhere in the course of such drain or soil pipes shall be liable to pay a fine of not less than \$5, nor more than \$40, for each and every such offense, and if a licensed plumber, shall be liable upon conviction of such offense to forfeit his license and shall be ineligible to relicense for one year.

(c) Every connection of a water closet, sink basin or other vessel connected with the soil pipe or drain must be separated from it by at least one trap properly arranged so as to prevent the passage of air or gas from the soil into the building. All details of plumbing work must be of a kind and quality to be approved by the said Commission or its duly authorized agent. The discretion of said Commission or its agent in approving plans and accepting the work as above shall be limited only by the following requirements, viz :

1. No water closet shall be set up in any house or building, in which its walls are not freely and fully washed by the normal discharge of the closet at each operation, nor shall any hopper closet be set up which has a trap of less than one and three-quarter inches seal.

2. Every trap constructed which is so situated as to be subject to siphonage by momentum or by suction shall be of a kind that can not have its water seal broken by siphonage or shall have an effective mechanical seal.

3. No cowl, return bend or cap shall be used at the top of any soil or vent pipe.

4. Every lateral branch extending more than fifteen feet from a ventilated soil or vent pipe with which it is connected, shall be independently vented through the roof of the building up a pipe of its full diameter. There shall be no trap in the course of such branch or vent pipe, each fixture being independently connected with it and having its own trap.

4. No fixture shall be trapped by having its outlet connected with the trap of another fixture.

6. From a point five feet outside the foundation walls of a building no material may be used for soil, waste and vent pipes other than wrought iron or cast iron pipes with securely leaded joints or lead pipes with soldered or wiped joints. Cement or putty joint. Tin or sheet iron pipes whether galvanized or not shall not be used.

7. No connections may be made at any point of the house drainage system with roof gutters or any other channel for the conveyance of rainwater without permission from the Municipal Commission or their agent except that plumbing fixtures may be supplied from tanks constructed to store rain or city water for such purpose.

8. All soil and water pipes shall be direct as possible and all parts of the work shall be so arranged that they may be at all times readily examined and repaired. Before the fixtures are placed in connection with the plumbing of any house or building and before said pipe is connected with the drain the outlet of the soil pipe and all opening into it shall be hermetically sealed, the pipes shall then be filled with water to its top, and every joint shall be carefully examined for leakage, and all leaks shall be securely closed before connections with the soil pipes are made, except in cases of inspection of plumbing already existing, the peppermint, ether, or smoke test may be substituted by the Municipal Commission or its agent.

(d) The licensed mechanic employed to construct a house drain shall complete his work to the connection branch of the public sewer but no connection shall be made with the public sewer, except under the immediate supervision of the Municipal Commission or its agent and only after it or he shall have personally inspected and accepted the house drain and its plumbing connections and been satisfied that all is strictly in accordance with the requirements of this ordinance, and the permission of the Commission for such connection shall have been duly issued.

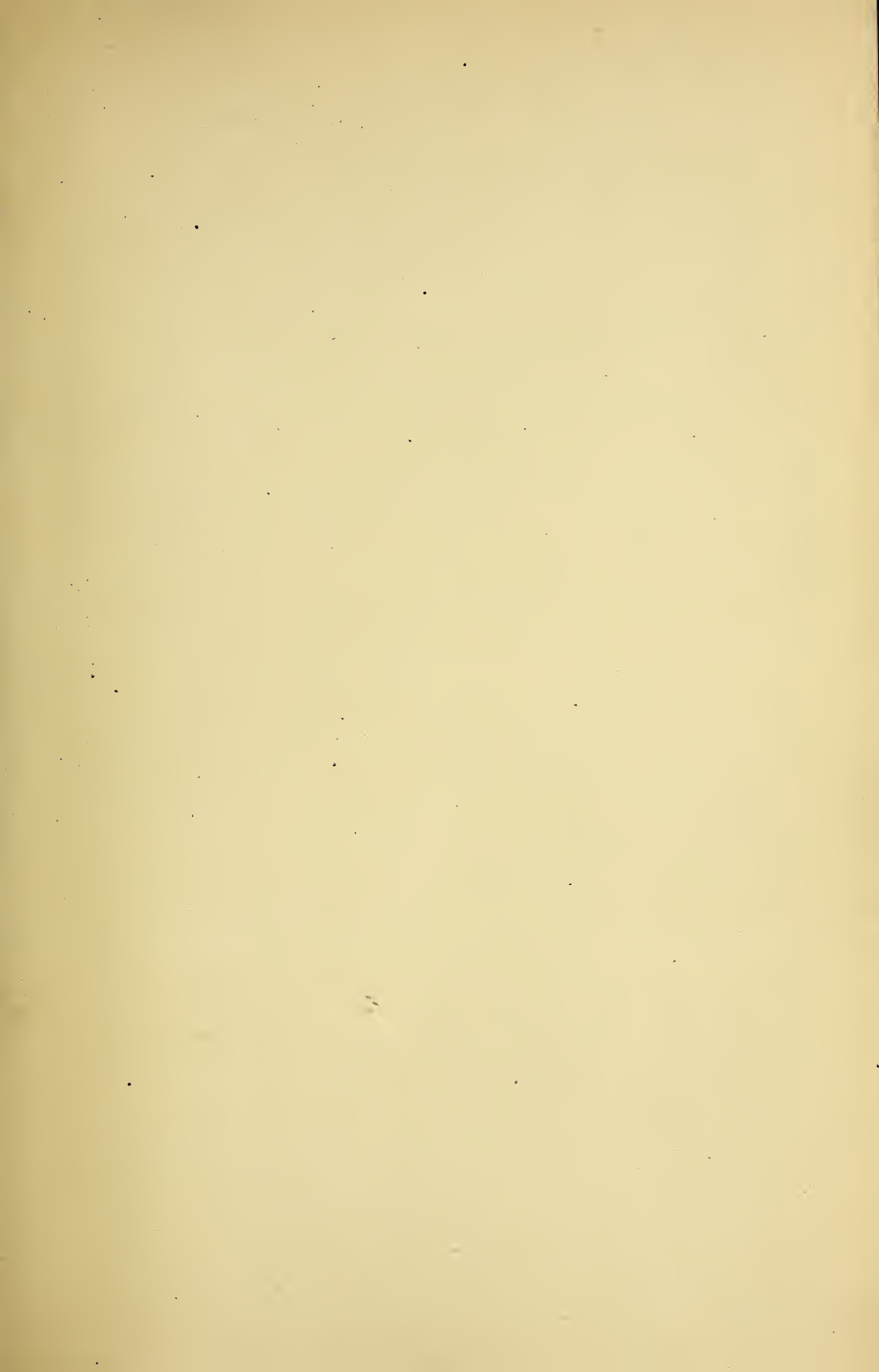
(e) Application for license to do any work under this ordinance shall be made in writing to the Municipal Commission on proper blanks provided for that purpose. Every person, firm or corporation to whom a license is granted shall file a bond to be approved by the said Commission in the sum of \$500, condition to save harmless indemnify the village of Herkimer from all damages arising from making connections with the public sewer and no person, firm or corporation so licensed shall undertake any house drainage or plumbing work to be connected with the public sewers without first having received a special permit for such work in each case. Application for permits for house drainage and sewer connections must be made in writing by the owner of the property or his agent giving the name of the licensed mechanic who is to do the work and request that said mechanic be authorized therefor. Blanks for such application will be furnished.

SECTION IV. Any person who shall allow any surface water or rain water from the ground or roof of houses or buildings to enter any pipe or drain or any vessel or slop stone connected with any pipe or drain connected with the public sewers, or admit any drainage water from any cellar into such pipe or drain without obtaining permission therefor from the Municipal Commission or its agent, or any person violating any of the provisions of section III of this Ordinance shall be liable upon conviction to pay a fine of not less than \$5, nor more than \$50.

SECTION V. Any person who shall throw, or deposit or cause to be thrown or deposited in any vessel, or receptacle connected with the public sewer any garbage, vegetable parings, ashes, cinders, rags, or other matter or things whatsoever, except faeces, urine, the necessary water closet paper and liquid house slops, or to allow any house drain to be connected with any private vault or cesspool or underground drain, or with any other channel conveying water or filth, excepting the soil pipes and plumbing work of the house or building as hereinbefore provided, shall be liable upon conviction thereof to pay a fine of not more than \$50 for each offence.

SECTION VI. It is made the duty of the Municipal Commission to enforce full compliance with the ordinances in relation to the sewers and the connections therewith, and for that purpose they may appoint a suitable person to act as their agent and any failure of duty on the part of said Commission, or its agent, shall subject the person in default to all the penalties of this ordinance.

SECTION VII. This ordinance shall take effect and go into operation immediately.



352.0747

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Third Annual Report

Herkimer
Municipal Commission,

Herkimer, N. Y.

1898.

THIRD ANNUAL REPORT

OF THE

Municipal Commission

OF

HERKIMER, N. Y.,

APRIL 1, 1898.

BOARD OF COMMISSIONERS:

C. R. SNELL, President.

E. W. SLUYTER, Clerk and Superintendent.

M. L. HAGADORN, Treasurer.

D. M. DEVENDORF,	Term expires March 31, 1901
W. P. MUNSON,	" " " " 1900
C. R. SNELL,	" " " " 1899
HENRY CHURCHILL,	" " " " 1898

Citizen Pub. Co., Printers,
Herkimer and Alton.

Report of the Municipal Commission.

HERKIMER, N. Y.

To the Honorable Board of Trustees of Herkimer, N. Y.:

We present herewith, in the customary pamphlet form, our third annual report, acknowledging that, although something can be said in defense of the unusual delay, it should have been brought out at a much earlier date.

We think no comments on the report are required on our part, except that the work for the year has been of the ordinary character, and that we have endeavored to do it well.

Respectfully,

MUNICIPAL COMMISSION.

Report of Superintendent.

To the Honorable Municipal Commission of the Village of Herkimer, N. Y.:

I herewith submit my third annual report of the departments under my charge.

Water.

The water supply has been ample for all demands.

Some trouble was experienced during the months of April and May with milky or white looking water. This was caused by air in the suction pipe. Although this in no way was detrimental to the water it was the cause of many complaints and considerable annoyance. After long searching the leak was discovered, pipe repaired, and no further trouble experienced.

Extensions.

Three hundred and sixty feet of six-inch pipe have been laid in Folts street, crossing under the hydraulic canal, with a hydrant at the corner of Folts and Doxtater streets. Two valves were placed in this line of pipe. This pipe should eventually be extended the length of Folts street, connecting through Steuben street with an eight-inch main on Albany street. A further connection should be made from some point on Folts street with the

water house. This double connection would answer two purposes. First, it would make an independent connection for the pipe system with the water house, thus freeing the entire distribution system of the danger (which now exists) of a break or leak in the single line of pipe now running from the water house to the Steuben road, thence to Washington street, a distance of thirty-six hundred feet. Should a break or leak now occur at any point in this entire distance it would necessitate shutting off the supply of the whole village for such time as might be required for repairs. This, at all times, would be a dangerous thing to do. Second, it would do away with a large amount of friction in present pipes and greatly increase the pressure in case of fire at any point south of the New York Central railroad.

No breaks have occurred during the year in the distribution system and no hydrants have been frozen.

Receipts.

The gross receipts from water rents show an increase over last year of \$539.32.

Net receipts, or actual profit to the village, \$2,680.42, after paying all expenses, including interest on outstanding bonds. In the above is included no charge for hydrants or for water used for fire purposes.

Light

A new lamp was placed at the corner of Protection street and Eastern Avenue.

Repairs.

Extraordinary repairs have been made during the year as follows:

New engine foundation; two new commutators to replace those that have been in service since the dynamos started; eight T. H. lamps to take the place of same number of old Edisons, for which no repairs are now made by the Edison company, and all poles repainted.

I feel it due to all employees of the light and water departments to say that their hearty co-operation and earnest work has greatly aided in bringing these departments to their present state of efficiency.

Sewers.

There are three hundred and fifty-six connections with the public sewers.

Police and Fire.

These departments have sustained their past record for efficiency.

E. W. SLUYTER,

Clerk and Superintendent.

Balance Sheet.

Assets.

WATER SYSTEM.

Cost, per report April 1, 1897	-	-	-	-	\$70,879 24	
Added since—Schedule A	-	-	-	-	1,342 70	\$ 72,221 94

LIGHT SYSTEM.

Cost, per report April 1, 1897	-	-	-	-	17,657 62	
Added—Schedule B	-	-	-	-	424 02	18,081 64

SEWER SYSTEM.

Cost, per report April 1, 1897	-	-	-	-	57,924 71	57,924 71
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FIRE SYSTEM.

Cost, per report April 1, 1897	-	-	-	-	4,469 78	4,469 78
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SUNDRY INVENTORIES.

Light maintenance, Schedule C,	-	-	-	-	390 82	
Water " " D,	-	-	-	-	515 98	
Sewer " " E,	-	-	-	-	168 69	
Police " " F,	-	-	-	-	61 20	
Fire " " G,	-	-	-	-	2,670 80	
General expense account, Schedule H,	-	-	-	-	247 50	
Soft coal " " I,	-	-	-	-	322 50	4,377 49

OUTSTANDING ACCOUNTS.

Bills receivable	-	-	-	-	-	175 00	
Due from town of Herkimer	-	-	-	-	-	63 10	
Due from sundry persons, back water tax	-	-	-	-	-	32 71	
Checks in hand of Treasurer	-	-	-	-	-	63 41	
Cash in hand of Superintendent	-	-	-	-	-	10 01	344 23
							\$157,419 79

Liabilities.

BONDED DEBT.

Light bonds outstanding,	-	-	-	-	\$14,000 00	
Water " " "	-	-	-	-	57,000 00	
Sewer " " "	-	-	-	-	55,500 00	\$126,500 00
Interest accrued and not due on light bonds,					466 67	
" " " " water "					1,523 96	
" " " " sewer "					386 25	2,376 88
Surplus, being excess of assets over liabilities,	-	-	-	-		28,542 91
						\$157,419 79

Treasurer's Statement.

CASH RECEIPTS.

Balance on hand with Superintendent	-	-	-	-	-	-	-	-	-	188 94
Water maintenance	-	-	-	-	-	-	-	-	-	7,420 31
Police	"	-	-	-	-	-	-	-	-	354 05
Light	"	-	-	-	-	-	-	-	-	162 25
Village Trustees	-	-	-	-	-	-	-	-	-	6,132 00
E. B. Mitchell	-	-	-	-	-	-	-	-	-	139 80
Herkimer county	-	-	-	-	-	-	-	-	-	67 85
										\$14,465 20

CASH DISBURSEMENTS.

For overdraft at bank	-	-	-	-	-	-	-	-	-	\$ 183 72
For additions to systems	-	-	-	-	-	-	-	-	-	1,741 37
For maintenance accounts	-	-	-	-	-	-	-	-	-	12 190 02
For floating debt	-	-	-	-	-	-	-	-	-	276 67
Balance with Treasurer	-	-	-	-	-	-	-	-	-	63 41
Balance with Superintendent	-	-	-	-	-	-	-	-	-	10 01
										\$14,465 20

M. L. HAGADORN, Treasurer.

Second Proposition—Actual operating expenses

70 lamps	-	-	-	-	-	-	\$3,833 15
Add one year's interest on bonds	-	-	-	-	-	-	560 00, or per lamp \$62 76
							<hr/> \$4,393 15

Third Proposition—Operating expenses and

interest for 70 lamps	-	-	-	-	-	-	\$4,393 15
Ad 5 per cent. depreciation on plant	-	-	-	-	-	-	904 08
							<hr/>

Operating expenses, interest and depreciation \$5,292 23, or per lamp \$75 67

In comparing municipal plants with those of private ownership it is usual to estimate the amount of annual taxes which the latter are required to pay. If we make this addition it will increase the last amount by \$1.50, or a total of \$77.17.

Actual hours light furnished, 12 months, 3,304.

Candle power per hour furnished for one cent:

First proposition as above	-	-	-	-	-	-	1,207
Second “ “	-	-	-	-	-	-	1,053
Third “ “	-	-	-	-	-	-	873

Cost per lamp per hour:

First proposition, cents	-	-	-	-	-	-	1 66-100
Second “ “	-	-	-	-	-	-	1 90-100
Third “ “	-	-	-	-	-	-	2 24-100

Pounds of coal consumed, 12 months	-	-	-	-	-	-	824,000
Number of miles of streets lighted	-	-	-	-	-	-	12½

Plant consists of :

One 6x16 horizontal boiler and one 6½x18, with necessary pumps and fixtures used in connection with water system.

One 100-H. P. ball tandem compound engine.

Two Edison 50-light arc dynamos.

Necessary switch board, lightning arresters, etc.

Thirty-one T. & H. double carbon lamps.

Nineteen Edison single carbon lamps.

Twenty daylight single carbon lamps.

Two hundred and eighty-six poles.

Twelve mast arms.

Water Maintenance Account.

FOR TWELVE MONTHS.

Superintendent's salary	-	-	-	-	-	-	\$	270	00
Treasurer's salary, 11½ months	-	-	-	-	-	-		28	75
Labor, Martin Manion	-	-	-	-	-		\$154	95	
“ William Crego	-	-	-	-	-		540	00	
“ Enoch Smith	-	-	-	-	-		116	65	
									811 60
Hardware and general expense	-	-	-	-	-	-		214	41
Oil, packing and waste	-	-	-	-	-	-		116	37
Repairs, pipe line	-	-	-	-	-	-	\$62	76	
“ pumps and boilers	-	-	-	-	-	-	91	56	
“ coal dump	-	-	-	-	-	-	25	00	
“ building	-	-	-	-	-	-	78	20	257 52
Coal	-	-	-	-	-	-	\$909	88	
Books and stationery	-	-	-	-	-	-	30	32	
Grading lot	-	-	-	-	-	-	130	46	
Postage	-	-	-	-	-	-	19	27	
Office rent and fuel	-	-	-	-	-	-	55	36	
Insurance	-	-	-	-	-	-	42	46	
Meters	-	-	-	-	-	-	4	55	
Janitor	-	-	-	-	-	-	5	40	
Miscellaneous	-	-	-	-	-	-	114	72	\$1,312 42
Total operating expenses	-	-	-	-	-	-		\$3,011	07
Interest on outstanding bonds, 12 months	-	-	-	-	-	-		1,995	00
Total	-	-	-	-	-	-		\$5,006	07

RECEIPTS—CREDITED.

From water rents, cash	-	-	-	-		\$7,420	31		
Charged sewer maintenance	-	-	-	-	-	256	18		
“ fire	-	-	-	-	-	10	00	\$7,686	49
Balance profit	-	-	-	-	-	-	-	\$2,680	42

Pounds coal consumed	-	-	-	-	-	-		803,410	
“ “ per 1,000 gallons of water	-	-	-	-	-	-		6 46-100	

Total gallons of water pumped	-	-	-	124,419,306
Less 20 per cent. for wastage between pump and consumer	-	-	-	24,883,861
Net	-	-	-	99,535,445
Hours actually pumped	-	-	-	3,164
First Proposition—Actual operating expense	-	-	-	\$3,011 07
Second Proposition—With interest on bonds added	-	-	-	5,006 07
Third Proposition—Interest and five per cent depreciation	-	-	-	8,617 17
Cost 1,000 gallons water, first proposition, in cents	-	-	-	3 3-100
“ “ “ “ second “ “	-	-	-	5 3-100
“ “ “ “ third “ “	-	-	-	8 66-100

System consists of :

- One Knowles compound duplex pump, 11x18½x12x12.
- “ “ “ “ “ 12x18½x10x12.

Two Knowles vacuum pumps.

One “ feed water pump.

One horizontal tubular boiler, 6x16, with necessary fixtures, used in connection with light system, and one 6½x18 boiler.

Eight-inch pipe	-	-	-	-	-	8,320 feet
Six-inch pipe	-	-	-	-	-	10,360 feet
Four-inch pipe	-	-	-	-	-	27,520 feet
Three-inch pipe	-	-	-	-	-	400 feet
One and one-half-inch pipe	-	-	-	-	-	528 feet
Total pipe in streets	-	-	-	-	-	47,128 feet
Eight-inch valves	-	-	-	-	-	10
Six-inch valves	-	-	-	-	-	12
Four-inch valves	-	-	-	-	-	42
Total valves	-	-	-	-	-	64

Figures Showing Per Capita Consumption, Receipts per 1,000 Gallons, etc.

No. of net gallons delivered as above	-	-	-	-	99,535,445
Less used by sewer system	-	-	-	-	1,518,360
Total gallons consumed	-	-	-	-	98,017,085
Estimating the population at 5,000 equals 54½ gallons per day per capita.					
No. of taps	-	-	-	-	801
Gallons average per tap for 12 months	-	-	-	-	124,264
“ “ “ per day	-	-	-	-	340
Meters in use	-	-	-	-	27
Gallons of water metered from Jan. 1, '97, to Jan. 1, '98	-	-	-	-	9,583,165
Received for same	-	-	-	-	\$985 09

Average receipts per 1,000 gallons metered water in cents	-	10 33-100
Gallons of unmetered water for 12 months	- - 88,843,920	
Receipts for same	- - - - -	\$6,435 22
Average receipts for 1,000 gallons unmetered water in cents		6 52-100

Hydrants belong to the system as follows :

1. North side of German street, opposite Main.
2. Main, near residence of B. Patrick.
3. Main, opposite Court street.
4. Corner Main and Mary.
5. Main, opposite the Herkimer bank.
6. Corner Main and Park Avenue.
7. Corner Main and Albany streets.
8. Main, opposite Mohawk street.
9. Main street, opposite George.
10. Corner Main and South streets.
11. Corner Washington and Steele streets.
12. Corner Washington and Smith streets.
13. Corner Washington and Perry streets.
14. Washington street, near Root's store.
15. Corner Washington and Albany.
16. Corner Washington and Green.
17. Washington, opposite Mary.
18. Corner Washington and Church.
19. Corner German and Prospect.
20. Corner German and Washington.
21. Corner Prospect and Church.
22. Prospect street, opposite Quackenbush's shop.
23. North side of Albany, on Prospect.
24. Mohawk street, near residence of E. Reardon.
25. Mohawk street, near Park House.
26. Second Avenue, at north end.
27. First Avenue, at north end.
28. Bellinger street, south of New York Central railroad.
29. Corner Bellinger Avenue and Bellinger street.
30. Corner Bellinger and Church streets.
31. Corner Bellinger and German streets.
32. German street, near H. H. Bellinger's residence.
33. German street, opposite Horrocks Desk Co.
34. Corner German street and Dorf lane.
35. Dorf lane, near paper mill.
36. Dorf lane, at paper mill.
37. Steuben road, near William Smith's late residence.
38. Corner German street and Westlake avenue.
39. Corner German and Lake streets.
40. Lake street, opposite Orin Cole's residence.

41. Albany street, west side hydraulic canal.
42. Albany street, opposite King street.
43. Corner Eastern Avenue and King street.
44. Eastern Avenue, near east end.
45. Smith Avenue, near Mr. McLane's residence.
46. Eureka Avenue, near Center.
47. Corner Smith and King streets.
48. Corner Smith and Pine streets.
49. Corner George and William streets.
50. Corner Smith and Bellinger streets.
51. Eastern Avenue, opposite Standard Furniture Company.
52. Westlake Avenue.
53. German street, near J. G. Bellinger's residence.
54. Church street, near Graham Bellinger's residence.
55. Church street, near H. H. Batchelder's residence.
56. Caroline street, north of Church street.
57. Deimel street, north end.
58. Corner King and Perry streets.
59. Corner King and Steele streets.
60. Steele street, between Washington and King streets.
61. Stimson street, east end.
62. Corner Folts and Doxtater streets.

Private hydrants as follows :

- Standard Furniture Company, 1.
- C. R. Snell's lumber yard, 1.
- Morris Mark's mill, 3.
- H. M. Quackenbush's shop, 1.

Sewer Maintenance Account.

Superintendent's salary	-	-	-	-	-	-	\$270 00
Treasurer's salary, 11½ months	-	-	-	-	-	-	28 75
Labor and repairs	-	-	-	-	-	-	290 22
Stationery and printing	-	-	-	-	-	-	14 18
Office rent and fuel	-	-	-	-	-	-	55 36
Postage	-	-	-	-	-	-	2 62
Water for flushing, credited to water maintenance account	-	-	-	-	-	-	256 18
Insurance	-	-	-	-	-	-	13 90
Janitor	-	-	-	-	-	-	5 40
Miscellaneous	-	-	-	-	-	-	11 55
							<hr/>
							\$948 16
Add 12 months' interest on bonds	-	-	-	-	-	-	2,317 50
							<hr/>
Total	-	-	-	-	-	-	\$3,265 66

EARNINGS.

By E. B. Mitchell	-	-	-	-	-	-	\$ 136 80
By town of Herkimer	-	-	-	-	-	-	264 25
By county of Herkimer	-	-	-	-	-	-	57 20
Total earnings	-	-	-	-	-	-	458 25
Net operating cost	-	-	-	-	-	-	\$2,387 90

Fire Maintenance Account.

Superintendent's salary	-	-	-	-	-	-	-	\$	90	00
Treasurer's salary, 11 ½ months	-	-	-	-	-	-	-		9	58
Handling carts and trucks at fires	-	-	-	-	-	-	-		27	00
General expense and repairs to fire alarm and supplies for batteries									50	15
E. D. Small, chief, 12 months	-	-	-	-	-	-	-		100	00
Rents for companies and hose carts	-	-	-	-	-	-	-		306	00
Gas	-	-	-	-	-	-	-		103	60
Hose Nozzles	-	-	-	-	-	-	-		10	00
Insurance	-	-	-	-	-	-	-		17	50
Fuel for engine house	-	-	-	-	-	-	-		9	00
Fuel furnished companies	-	-	-	-	-	-	-		40	75
Stationery	-	-	-	-	-	-	-		4	73
Office rent and fuel, municipal commission	-	-	-	-	-	-	-		18	45
Depreciation on uniforms	-	-	-	-	-	-	-		300	00
Miscellaneous depreciation on sundries	-	-	-	-	-	-	-		303	25
Miscellaneous expense	-	-	-	-	-	-	-		11	50
New cart	-	-	-	-	-	-	-		60	96
Repairs to carts	-	-	-	-	-	-	-		13	80
Water in exchange for use of bell M. E. church	-	-	-	-	-	-	-		10	00
Watchmen fire alarm boxes	-	-	-	-	-	-	-		12	00
Postage	-	-	-	-	-	-	-			87
Janitor	-	-	-	-	-	-	-		1	80
Total cost maintenance	-	-	-	-	-	-	-		\$1,500	94

Schedules.

Schedule A.

CHARGES TO WATER SYSTEM.

Addition to water lot, 4½ acres	-	-	-	-	-	\$ 801 00
Corporation cocks and labor	-	-	-	-	-	95 62
360 feet 6-inch pipe, Folts street valve and hydrant	-	-	-	-	-	119 33
Building	-	-	-	-	-	48 00
						<hr/>
						\$1,063 95

Schedule B.

ADDITIONS TO LIGHT SYSTEM.

Mast arms	-	-	-	-	-	-	\$ 33 17
Wire	-	-	-	-	-	-	91 37
Labor and carting	-	-	-	-	-	-	26 00
Lamps	-	-	-	-	-	-	20 07
							<hr/>
							\$ 170 61

Schedule C.

LIGHT MAINTENANCE, INVENTORY MATERIAL, ETC., ON HAND.

Carbons	-	-	-	-	\$ 21 13	1 pail	-	-	-	-	25
13 insulator pins	-	-	-	-	39	1 cot	-	-	-	-	1 00
13 insulator glasses	-	-	-	-	39	Rubber gloves	-	-	-	-	1 50
10 T. H. magnets	-	-	-	-	10 00	4 set brushes	-	-	-	-	6 00
8 Edison magnets	-	-	-	-	12 00	2 poles	-	-	-	-	7 50
2 pair climbers	-	-	-	-	3 00	2 magneto bells	-	-	-	-	15 00
1 pole, yoke and pike	-	-	-	-	1 25	1 volt meter	-	-	-	-	25 00
1 pole Y	-	-	-	-	50	1 bench	-	-	-	-	75
Pulley blocks and rope	-	-	-	-	2 50	2 ladders	-	-	-	-	3 00
1 engine ring	-	-	-	-	2 00	1 reel	-	-	-	-	1 00
1 vise	-	-	-	-	1 50	4 T. H. hoods	-	-	-	-	18 00
2 cut outs	-	-	-	-	6 50	2 steel bars	-	-	-	-	2 00
Lamp repairs	-	-	-	-	20 00	Cable	-	-	-	-	3 00
1 globe	-	-	-	-	75	2 arc lamps	-	-	-	-	35 00
1 stove	-	-	-	-	3 00	1 tree trimmer	-	-	-	-	1 00
1 cupboard	-	-	-	-	4 00	2 hgr. boards	-	-	-	-	3 00
100 lbs. insulated wire	-	-	-	-	14 25	1 chisel	-	-	-	-	50
5 series lamps	-	-	-	-	10 00	2 canal barrows	-	-	-	-	1 25
34 incandescent lamps	-	-	-	-	3 00	1 bbl. cement	-	-	-	-	1 25

HERKIMER MUNICIPAL COMMISSION.

17

2 switches - - -	50	500 brick - - -	3 00
Quantity of wire - - -	3 00	Insurance - - -	32 30
2 loads sand - - -	2 00		
1 wrench - - -	40		\$ 292 74
1 pair plyers - - -	65	Add one half of schedule I,	98 08
4 oil cups - - -	2 00		
1 pair shears - - -	50		\$390 82
1 oil filter - - -	5 00		
1 set oilers - - -	1 50		

Schedule D.

WATER MAINTENANCE, INVENTORY, MATERIAL, ETC., ON HAND.

4 meters, 1/2 inch - - -	\$ 36 00.	1 reducer 8x6 - - -	2 00
1 meter, 3/4 inch - - -	12 40	4 Y's 8x8 - - -	11 00
5 picks and handles - - -	1 00	1 Y 8x4 - - -	5 96
6 shovels - - -	1 50	23 feet 8 inch c. i. pipe -	18 00
1 lot hydrant seats - - -	3 00	1 malleable union 4 inch -	1 50
1 wrench - - -	1 00	2 straight way valves 6 inch	30 00
1 steam pump - - -	35 00	Quantity pipe fittings -	20 00
1 oil cup - - -	1 75	1 matox - - -	50
Pipe and fittings - - -	15 00	1 spade - - -	35
Valve springs - - -	20 00	1 brush scythe - - -	25
3 valve wrenches - - -	4 00	2 canal barrows - - -	1 50
1 water gauge - - -	10 00	Calking tools - - -	2 00
1 piece 4 inch c. i. pipe -	2 25	2 pipe joiners - - -	1 50
2 1/2 tons 6 inch c. i. pipe -	42 00	1 c. i. pipe cutter - - -	15 00
1 elbow 6 inch - - -	2 38	1 gate valve 2 inch - - -	3 00
4 tees 8x4 - - -	27 80	1 feed water heater -	10 00
4 sleeves 8 inch - - -	10 00	14 pump valves and guards	26 00
1 " 6 inch - - -	1 25	Insurance - - -	32 04
2 " 4 inch - - -	2 50		
5 plugs 8 inch - - -	3 82		\$417 90
2 " 6 inch - - -	90	Add one-half of Schedule I	98 08
1 increaser 6x8 - - -	2 00		
1 reducer 8x4 - - -	1 75		\$515 98

Schedule E.

SEWER MAINTENANCE, INVENTORY MATERIAL, ETC., ON HAND.

1 steel tape - - -	\$ 1 00	1 reducer 8x10 - - -	50
1 3/4 tons coal - - -	4 50	2 bends 20 inch - - -	3 00
1 broom - - -	20	5 tees 12x12 - - -	4 50
1 shovel - - -	20	2 " 10x20 - - -	4 00
1 wrench - - -	40	Oil cans - - -	15
1 piece pipe - - -	10	Quantity packing - - -	50
Quantity wood - - -	1 00	150 feet 20 inch pipe -	64 50
Fire tools - - -	35	70 feet 18 inch pipe -	24 50

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25 Ys 12 inch	-	-	22 50	2 pieces 12 inch pipe	-	24
25 Ys 8 inch	-	-	10 00	Manhole gaskets	-	1 00
2 Ys 20 inch	-	-	4 05	1 comp catch basin	-	12 00
1 step ladder	-	-	50	Insurance	-	8 60
1 increaser 8x10	-	-	50			

\$168 69**Schedule F.**

POLICE MAINTENANCE, INVENTORY MATERIAL, ETC., ON HAND.

3 helmets	-	-	\$ 1 00	2 twisters	-	1 00
100 police manuals	-	-	3 00	3 police clubs	-	50
3 call whistles	-	-	1 20	1 desk	-	1 50
3 chairs	-	-	3 00	1 desk	-	15 00
1 bicycle	-	-	25 00	1 record book	-	1 00
7 badges	-	-	3 00			
3 pairs handcuffs	-	-	6 00			

\$61 20**Schedule G.**

FIRE MAINTENANCE, INVENTORY MATERIAL, ETC., ON HAND.

50 hose washers	-	-	\$ 2 50	Chemicals for h. and l. truck	3 00
1 chamois	-	-	30	1 hose sleigh	3 00
1 fire engine	-	-	1000 00	1 hand-cart	3 00
1 hook and ladder truck			450 00	6 hose nozzles	50 00
1800 feet hose, old	-	-	400 00	1 spray nozzle	25 00
500 " " new	-	-	225 00	1 back pressure valve	30 00
5 set hose coupling	-	-	5 00	20 hose wrenches	10 00
7 hydrant wrenches	-	-	7 00	3 Ys	1 50
3 hose carts	-	-	40 00	1 barrel blue vitrol	17 00
1 " "	-	-	60 00	Fire alarm lines	10 00
1 globe stove	-	-	1 00	34 working suits	250 05
1 heater	-	-	20 00	Insurance	7 00
3 Cooper hose jackets	-	-	50 00		

\$2670 80**Schedule H.**

GENERAL EXPENSE ACCOUNT. INVENTORY.

1 Ledger	-	-	\$ 1 00	1 waste basket	-	50
5 copy books	-	-	3 00	Stove and fitting	-	15 00
1 desk	-	-	12 00	3 chairs	-	12 00
1 " "	-	-	6 00	Books and stationery	-	3 00
Building	-	-	130 00			
Plumbing	-	-	65 00			

\$247 50**Schedule I.**

GENERAL INVENTORY. LIGHT AND WATER.

1 pair telephones	-	-	\$ 25 00	Fire clay	-	1 00
50 lbs. waste	-	-	3 00	1 oil pump	-	1 00
10 lbs. gasket packing	-	-	4 00	Carpenter tools	-	1 75

7 lbs. ring packing	-	5 25	63 gals. engine oil	-	-	7 56
7 lbs. sheet rubber	-	2 80	30 gals. cylinder oil	-	-	10 50
1 table	-	4 00	1 boiler door	-	-	3 00
3 chairs	-	1 50	Fire brick	-	-	2 50
2 1 bbl. oil cans	-	9 00	1 flue blower	-	-	5 00
5 pipe wrenches	-	6 00	Pipe cutting tools	-	-	4 00
1 pair chain tongs	-	5 00	1 level	-	-	75
1 vise	-	7 00	1 lubricator	-	-	2 00
1 8 day clock	-	3 00	1 lawn mower	-	-	5 00
Fire tools	-	3 75	20 gals. kerosene oil	-	-	1 20
Hoisting tackle	-	5 00	2 steel bars	-	-	2 00
2 scoops	-	1 00	3 screw wrenches	-	-	2 00
7 boiler grates	-	15 00	2 lanterns	-	-	60
1 steel borrow	-	6 00	80 ft. fire hose	-	-	20 00
75 ft. hose	-	3 00	1 keg pipe cement	-	-	2 00
Flue cleaner	-	12 00				
Soda ash	-	3 00				\$196 16.

Report of Chief of Police.

Showing number of arrests for the year, character of offense charged and disposition of prisoner :

Offense Charged.

Disorderly	-	89	Burglary, 3rd degree	-	4
Assault, 3rd degree	-	13	Grand Larceny	-	3
Defrauding, board bill	-	6	Vagrancy	-	14
Misdemeanor	-	1	Peace warrants	-	1
Assault, 1st degree	-	3	Search warrants	-	2
Violation of Sec. 654, Code	-	2	Assault, 2nd degree	-	3
Petit Larceny	-	10			
Receiving stolen property	-	1			152

Sentence.

Sentence suspended	-	79	Held for grand jury	-	4
Paid fines	-	13	House of refuge	-	1
Charge withdrawn	-	19	County house	-	1
Discharged	-	12			
Albany penitentiary	-	6			152
County jail	-	17			

Rules and Regulations for the Use of Water.

I. *Applications for Water* —All applications for the introduction or supply of water to any premises, or for the extension of any pipe for the conveyance of such water, must be made in writing on the books of the Commission, and if the applicant is not the owner of the premises, the written consent of the owner must accompany the application.

When more than one building, or one tenant, is supplied through one service pipe, the application for the supply of such buildings, or tenants, shall be made by one person, and said person shall be held responsible for all supplies through said service pipes.

II. *No Permits* —No permits will be granted for baths, water closets, or wash basins, when it is not also taken for household or office purposes.

III. *Plumbing*.—The introduction of service pipe for the supply of premises with water, and all plumbing of every description, for the use or distribution thereof, must be done by plumbers licensed by the Commission, and who shall be under bonds to the Commission for the faithful performance of their work, in accordance with the Rules and Regulations of the Commission.

Penalty.—For any violation of this rule a penalty of ten dollars will be incurred, and the use of water will not be allowed on the premises until the same is settled.

IV. *Applications for Additions and Alterations* —No addition or alteration whatever, in or about public or private pipes, shall be made by any person until the application therefor has been made on the books of the Commission, and a written permit given by the Superintendent or Secretary.

Penalty —For any violation of this rule a penalty of ten dollars will be incurred, and the flow of water will be stopped until the same is settled.

V. *Commission Not to Connect* —The plumbing on the premises to be supplied with water must be completed before any connection with the mains shall be made; and the Commission reserves the right to decline to connect the plumbing not in accordance with the Commission's Rules and Regulations.

VI. *Openings and Work in Streets*.—The streets must be opened and the paving stones and earth deposited in a manner that will occasion the least inconvenience to the public and provide for the passage of water along the gutters; the paving and flagging must be restored as quickly as possible to as good condition as previous to the excavation, and all work in the streets in making service connections and repairs, must be at the sole risk and responsibility of the person having the same done, or of the plumber doing the same.

VII. *Owner or Tenant Must Not Supply Other Persons. Must Have Independent Service, Except by Permission. Where Two or More are Supplied by One Service*.—No owner or tenant of any premises supplied with water by the Works will be allowed to supply water to other persons or families; if found so doing the supply will be stopped and the amount paid forfeited; and except where special permission is granted by the Commission, each consumer must be supplied by independent service pipe from the main. In case two or more parties are supplied with water from the same service, if either of the said parties fail to pay the water rates when

due, or to comply with any rule of the Commission, the Commission may turn off the water from such pipe until the rent is paid and the rule strictly complied with.

VIII. *Service Pipe and Fixtures Subject to Approval of Commission. Service Cock.*—All lateral or service pipes, for public or private use, and all necessary fixtures connected therewith, shall be subject to the approval and laid under the supervision of the Superintendent ; said pipes, etc., should be laid not less than four feet deep, and must be kept in good repair, and must be protected from the frost by and at the expense of the applicant. All connections with the street mains will be made by the Commission, and there shall be a suitable stop-cock, with well and cover, as prescribed and provided by the Commission, for which the applicant must pay the commission at the time of making such application. Such connection will be regarded as a part of the main pipe, and will belong to the Commission ; also, in all cases, a stop-cock with well and cover, shall be put in at the curb, or outer edge of the walk, and another, with waste, inside of cellar wall.

IX. *Use for Protection.*—The Commission has the right to use any of the service cocks when necessary for its own protection.

X. *Turning on Water.*—No plumber or consumer shall turn on water to any premises, whether old or new supply.

XI. *Notice when Connection to be Made or Water Turned Off.*—Notice must be left at the office of the Commission the day before any service is to be put in, stating the street and the number of the location and the name of the person owning or occupying the premises, and the exact time when the trench will be ready for making the connection ; and a like notice must be left when the water is to be turned on to any premises.

XII. *Streets and Lawn Sprinklers.*—The season for the use of water for street or lawn sprinklers, or yard fountains, begins May 1st and expires on November 1st.

No abatement in the regular charge will be made for any fractional part of the term.

The use of hand hose for street sprinkling will not be allowed between the hours of 9 a. m. and 4 p. m.

All hose attachments, if used as sprinklers, will be charged in addition as sprinklers, and subject to the rules regarding sprinklers.

Street sprinklers or washers, must not be used to sprinkle beyond the center of the street, or the limits of the premises of those paying for them ; or for filling cisterns, or converted into jets, or be used for washing down the collections of the gutters upon neighboring premises, or used to flood the streets, but merely to sprinkle them, and must not be permitted to run except when in actual use ; and it is expressly understood that the water paid for as street or lawn sprinklers, cannot be used for any other purpose, except in case of fire ; and parties so using it are liable to have the water turned off without notice.

XIII. *Waste Water.*—Taps at sinks, wash basins, water closets, bath, urinals, sprinklers, and for other uses, must be kept closed when not in actual use, and not be allowed to leak.

XIV. *Fountains.*—No yard fountain, or jet, shall be used longer than six hours a day for six months in the year, without special arrangement ; and the application shall state at what hours it shall be used, and if found running at any other time the water will be shut off from the premises.

XV. *Inspection of Premises.*—The Superintendent personally, and any person delegated by him for that purpose, must at all reasonable hours have free access to all parts of the premises where water is delivered for the purpose of inspection, examination of fixtures, etc., and all persons using water must, at all times, frankly, and without concealment, answer all questions put to them relating to its consumption.

XVI. *Vacating Premises. Transfer of Balance of Rates Paid.*—Consumers vacating their premises must give notice at the office of the Commission, that the water may be shut off; and they will be held responsible for the water rate until such notice is given. Where there is a change of occupants, the balance of a bill paid in advance may be transferred, on notice at the time, to other premises for the same uses, but no balance of a bill will be refunded.

XVII. *Leaks.*—When leaks occur in service pipes at any point beyond the main pipe, they must be immediately repaired by the owner or occupant; and if not repaired within a reasonable time, after notice, the water will be shut off until repaired.

XVIII. *Payment of Water Rates.*—All water bills shall be paid on the first day of April and October, at the office of the Commission, in advance; street washers, fountain and yard sprinklers, payable for the season. All bills must be paid within thirty days from date of same, or water will be shut off without notice. When meters are used, the estimated amount shall be paid for in advance, subject to meter measurement.

XIX. *Water Closets.*—None but self-closing water closets or urinals shall be used, which must be subject to the approval of the Superintendent.

XX. *Fraudulent Misrepresentations, Uses, Waste, Etc.*—In case of misrepresentations on the part of the applicant, or of uses of water not embraced in the application, or of willful or unreasonable waste of water or violation of any of the Rules and Regulations of the Commission, or non-payment of rates when due, in addition to the penalties hereinbefore imposed, the water will be cut off without notice, and the payments will be forfeited, and the water will not be turned on again unless upon satisfactory assurance that no further cause of complaint shall arise and the payment of such penalty as the Commission shall impose; and the sum of one dollar will be charged for turning on the water again.

XXI. *Check Valve.*—All house and other boilers shall be fitted with a suitable check valve to prevent accidents from collapse or damage in case the water is suddenly drawn off from the main pipes.

XXII. *Meters.*—The Commission reserves the right to attach meters at any time whenever they shall deem it expedient, and charge for the quantity of water measured, or used, instead of the special rates. A reasonable charge will be made for the use of the meters.

XXIII. *Deficient Supply.*—The Commission reserves the right to shut off the water for alterations, extensions and repairs, and to stop and restrict the supply of water whenever it may be found necessary; and the Commission shall not be liable, under any circumstances, for the deficiency or failure in the supply of water, whether occasioned by shutting off the water to make repairs, or connections, or for any other cause whatever.

XXIV. *No Rebates for Partial Uses.*—No rebate from rates will be allowed for partial use of water from wells, cisterns, etc.

All fixtures for the supply of water for which the Commission have regular rates, must be paid for or disconnected from service pipe.

XXV. *Changing Rules and Rates.*—The Commission reserves the right to change the Rules and Regulations and the rates for the use of water from time to time, and to make special rates, or contracts, in all proper cases.

XXVI. *Right to Use Water as Agreed Only.*—The Commission agrees to furnish water on certain terms for certain specified uses, for a certain sum.

Therefore, the consumer will not be permitted to use it for any other purpose than that stated in the agreement.

Rules for Plumbers.

1. In no case must a plumber turn on water for a consumer without the written consent of the Commission, under a penalty of ten dollars.

2. The Commission will furnish and put in Corporation Taps, and no other person will be allowed to tap the mains.

3. The tapping will be done at the expense of the applicant.

4. All service pipes from the mains to the curb stone must be equal in strength to "AA" lead pipe. Where service pipe of a more rigid material than lead pipe is used, it must be connected with the mains by at least two feet of lead pipe, and the stopcock at the end must have nut and washer.

5. The service pipe must be laid at least four feet below the surface of the street, and in such a manner as to prevent rupture by settling, and must be provided a Glauber Improved Stopcock at the curb stone in all cases, whether a street washer is attached or not, protected by a box of the Gould pattern leading from the same to the surface, with an iron cover, with the word "water" marked thereon and so exposed as to be readily found; the whole to be subject to the approval of the Commission.

6. Notice must be left at the office of the Commission on the day previous to the one on which the tapping will be required, stating the hour when the street will be open at the main; and after the tapping is done, the connections must be made, and the street and pavement put in good condition, and all rubbish removed with as little delay as possible.

7. All service pipe shall be at least one-eighth of an inch larger in the interior than the Corporation Tap.

8. A Glauber stop and waste cock must be located inside the building, and the pipes so arranged that the water can be drawn from them whenever there is danger of its freezing.

9. No plumber will be allowed to open the street for the introduction of service pipe without a written permit from the Commission; and the water must not be turned on for use until an application has been signed at the office of the Commission, stating fully the purposes for which the water is to be used.

10. No addition or alteration whatever, in or about any public or private pipe, conduit, water cock or other fixtures, shall be made by any person without permission first had in writing from the Superintendent. Any plumber or other person making such addition or alteration, shall be subject to a penalty of ten dollars for each offense.

11. Each plumber will be provided with blanks which are to be filled out and returned to the office of the Commission as soon as the work is completed.

12. On the first day of May in each year, any plumber wishing to engage in repairs of Herkimer water pipes, or laying new services, must obtain a permit from the Commission, and in case of a violation of any of the above rules, the permit will be revoked.

13. All fixtures, except water closet tanks, hereafter connected with the Herkimer water works on either old or new work, shall be Fuller pattern bibbs, basin or pantry cocks.

14. All house or other boilers shall be fitted with a suitable check valve to prevent accidents from collapse or damage in case the water is suddenlyrawn off from the main pipes.

Tariff of Annual Rates.

BATHS.		OFFICES.	
Public, each tub.....	\$ 15 00	Law	4 00
Hotel,	10 00	Physician.....	4 00
Boarding Houses, each tub.....	5 00	Dentist.....	6 00
Private Dwellings.....	3 00	Bath Tub.....	3 00
" " each additional tub	1 50	Water Closet.....	3 00
		Urinal.....	3 00
BARBER SHOP.		PRINTING OFFICES.	
First Chair.....	4 00	For ten hands or less.....	10 00
Each additional chair.....	1 00	Each additional hand.....	1 00
		(Exclusive of Steam Engine.)	
BAKERIES.		PHOTOGRAPH GALLERIES.	
One Faucet.....	6 00	One Faucet.....	6 00
Provided that no bakery shall pay less than \$6.00 per annum, exclusive of charge for steam boilers.		RESTAURANTS AND SALOONS.	
		One Faucet.....	10 00
BOARDING HOUSES.		SLEEPING ROOMS.	
From.....\$5.00 to \$20.00		In Blocks or Stores, each.....	4 00
Baths, per tub.....	5 00	Bath Tub.....	3 00
Water Closets, each.....	6 00	Water Closet.....	3 00
" " each additional ...	3 00	Urinal.....	3 00
Urinals, each.....	4 00		
BUILDING PURPOSES.		SCHOOLS—(Not Boarding.)	
Laying stone, per cubic yard....	3 cts	For 25 scholars or less.....	6 00
Laying brick, per thousand.....	4 cts	Each additional scholar.....	05
Plastering, per 100 square yards..	20 cts		
BLACKSMITH SHOPS.		SODA FOUNTAINS.	
One Fire.....	4 00	One Faucet.....	8 00
Each additional.....	1 00	STEAM ENGINES.	
DWELLINGS.		Per horse power, up to 15 horse power.....	
For a family, in a house, one faucet.....	4 00	Each additional horse power....	
For each additional faucet (not including bath tub or water closets).....	1 00	STORES.	
FOUNTAINS.		Provision, Drug, Grocery and Liquor.....	4 00
(To be used 6 hours per day for 6 months in the year.)		Other stores.....	4 00
1-16 inch delivery.....	5 00	STABLES.	
Each additional jet of 1-16 inch	3 00	Livery, Omnibus and Boarding stalls, each.....	1 00
1/8 inch delivery.....	8 00	Private, with water for washing, not exceeding one horse.....	2 50
Each additional jet of 1/8 inch....	4 00	Each additional horse.....	50
GREEN HOUSES.		Each cow.....	50
Private.....	4 00	Hotel Stables, per stall.....	50
Public.....	10 00	SPRINKLERS—Street, See Rule 12.	
HOTELS.		One front, not exceeding 50 feet	2 50
From.....\$5.00 to \$30 00		Each additional foot above first 50 feet, per running foot.....	05
Bath Tubs, each.....	10 00	If on corners, additional to above, per foot.....	2 1/2 cts
Water Closets.....	6 00	All Hose Attachments to be charged as sprinklers.	
Urinals.....	3 00	SPRINKLERS—Lawn or Garden.	
Wash basins in sleeping rooms, whether supplied by faucet or carried to rooms.....	50	For watering Lawns or Gardens, and washing inside walks, stoops and outside of buildings, included in street sprinkling...	
LAUNDRIES.		If revolving or movable sprinklers are used, one-half the above rates will be added.	
General purposes	10 00	WASHTUBS - Permanent.	
MECHANICAL SHOPS.		In use for not more than eight persons.....	1 00
Not exceeding 25 hands.....	8 00	Per each additional.....	1 00
Each additional hand.....	10	WATER CLOSETS.	
Water Closets, each.....	6 00	Private Dwellings.....	3 00
Urinals, each.....	3 00	Banks.....	6 00
MARKETS.		Saloons.....	10 00
Meat or Fish.....	4 00		

Sewerage Ordinance.

SECTION I. The Board of Health and the Municipal Commission, or either of such Boards shall have power to stop and prevent the discharge of sewerage from any premises in the village of Herkimer into, or upon any public highway, stream, or water course or public place, or into any drain, cess-pool or private sewer, or to order a connection to be made with the public sewer, for the removal of sewage from any premises whenever in the opinion of either of such Boards the public interest demands it; and any person who shall neglect or refuse to comply with the order of such Board within ten days from the service of notice that any such order has been made, shall be guilty of a misdemeanor, and shall pay a fine of not less than \$10, nor more than \$50, upon conviction thereof.

SECTION II. It shall be a misdemeanor to do, or cause to be done, any of the following acts, except as hereinafter provided; and any and all persons guilty thereof shall be liable upon conviction to pay a fine of not less than \$5, nor more than \$50 for each offense.

1. To uncover the public sewer for any purpose, or make connections therewith, or to uncover the public inspection or connection branches thereof, or to open any manhole, or flush tank, unless and except with the written consent and under the supervision of the Municipal Commission or its authorized agent.

To do or to cause to be done any injury of any kind in any manner to the pumping station building, the engine and pumps or any connection therewith, or outlet pipe or any part of the apparatus, or any other of the appliances, connections, or parts of the public sewers.

2. To make or cause to be made any connection for the removal of sewerage from any premises with the storm water drain of the village or with any stream or water course within the limits of the village.

3. To make or cause to be made any connection with a house connection, or to connect any closet with a branch of the public sewer, except under a written license for the work signed by the Municipal Commission or its duly authorized agent.

4. To make or cause to be made any such connections, by any person than a mechanic, duly authorized to do such work by the Municipal Commission or the Board of Trustees of the Village of Herkimer or to make any such connection in any manner other than as follows, to wit:

(a) Every pipe connecting with the sewer from a point five feet outside the foundation walls of the building proposed to be connected must be either of heavy cast iron, or of salt glazed vitrified earthenware; must be sound and impervious in all its parts; must be proportionately laid on a true grade as nearly as possible in a straight line; all changes in its direction must be made with properly curved pipe; must be jointed in the best manner, and covered to a depth of at least one foot with well rammed fine earth, entirely free from stone and rubbish, within forty-eight hours after the back filling of the trench is completed the paving or ballast must be replaced and the street left in the best condition to the satisfaction of the Municipal Commission, or its duly authorized agent, and in no case shall the public sewers be

used by any private individual, until the connections therewith have been inspected and approved by the Municipal Commission or its duly authorized agent, and permission in writing for such use as has been granted by the said Municipal Commission or its duly authorized agent.

(b) In all cases gaskets must be used to prevent cement or lead from running into the pipes.

(c) No drain connected with the sewer shall be laid with a less inclination or grade than one in sixty without the written permission of the Municipal Commission or its duly authorized agent.

(d) All drains connected with the public sewer shall be at least four inches in interior diameter. No earthenware pipe shall be laid less than two feet six inches deep. Pipes laid at less depth than the above shall be of heavy cast iron with well caulked lead joints.

(e) No person or corporation shall hereafter lay any pipe or conduit for any purpose whatsoever in any street within five feet on either side of the public sewer in such street without the permission of the Municipal Commission.

(f) No more than one building shall be connected with the public sewer through one drain without special permit signed by the Municipal Commission or the president thereof.

(g) In opening trenches on any street or public way, the paving or ballast must be removed with care; the sides of the trench must be sheeted or braced when directed by the Municipal Commission or its agent, the earth thrown from the trenches must be placed so as to cause the least obstruction possible to public travel, gas and water pipes must be protected from injury and the trench enclosed and lighted at night, and every precaution necessary, taken to prevent injury to persons and property, during the progress of the work as it shall be directed by the Municipal Commission or its duly authorized agent.

(h) Any settlement over a drain connecting with the public sewer occurring within ninety days after it has been laid shall be repaired at the expense of the owner of the property from which such drain has been laid.

(i) Notice must be left at the office of the Commission or its agent at least twenty-four hours before the beginning of any work upon a drain, and no material shall be used or work covered until inspected by the Commission or its duly authorized agent.

(j) Permits to make connections with the public sewers shall be issued only when the plumbing in the house or building to be connected is in accordance with the rules for plumbing hereinafter described.

SECTION III. Before any building can be connected with the public sewer the plumbing in such building shall be inspected by the Board of Municipal Commission or its duly authorized agent and approved by him and a certificate of such approval filed in the office of the Commission. Under no circumstances can any mechanic doing the work of plumbing or house drainage, or any employee of such mechanic act as the agent of the Commission to perform the duties prescribed in this ordinance.

(a) All pipes from the sewer connections to the top of the soil pipes shall be fully three inches in diameter at every point.

(b) No trap or manner of obstructions to the free flow of air through the whole course of the drain and soil pipes will be allowed, and any mechanic or other person who shall directly or indirectly place, make, cause or allow to be placed or made any trap, obstruction, contraction or other obstacle anywhere in the course of such drain or soil pipes shall be liable to pay a fine of not less than \$5, nor more than \$40, for each and every offense, and if a licensed plumber, shall be liable upon conviction of such offense to forfeit his license and shall be ineligible to relicense for one year.

(c) Every connection of a water closet, sink, basin or other vessel con-

connected with the soil pipe or drain must be separated from it by at least one trap properly arranged so as to prevent the passage of air or gas from the soil into the building. All details of plumbing work must be of a kind and quality to be approved by the said Commission or its duly authorized agent. The discretion of said Commission or its agent in approving plans and accepting the work as above shall be limited only by the following requirements, viz:

1. No water closet shall be set up in any house or building, in which its walls are not freely and fully washed by the normal discharge of the closet at each operation, nor shall any hopper closet be set up which has a trap of less than one and three-quarter inches seal.

2. Every trap constructed which is so situated as to be subject to siphonage by momentum or by suction shall be of a kind that can not have its water seal broken by siphonage or shall have an effective mechanical seal.

3. No cowl, return bend or cap shall be used at the top of any soil or vent pipe.

4. Every lateral branch extending more than fifteen feet from a ventilated soil or vent pipe with which it is connected, shall be independently vented through the roof of the building up a pipe of its full diameter. There shall be no trap in the course of such branch or vent pipe, each fixture being independently connected with it and having its own trap.

5. No fixture shall be trapped by having its outlet connected with the trap of another fixture.

6. From a point five feet outside the foundation walls of a building no material may be used for soil, waste and vent pipes other than wrought iron or cast iron pipes with securely leaded joints or lead pipes with soldered or wiped joints. Cement or putty joint, tin or sheet iron pipes whether galvanized or not shall not be used.

7. No connections may be made at any point of the house-drainage system with roof gutters or any other channel for the conveyance of rain-water without permission from the Municipal Commission or their agent except that plumbing fixtures may be supplied from tanks constructed to store rain or city water for such purpose.

8. All soil and water pipes shall be direct as possible and all parts of the work shall be so arranged that they may be at all times readily examined and repaired. Before the fixtures are placed in connection with the plumbing of any house or building and before said pipe is connected with the drain the outlet of the soil pipe and all opening into it shall be hermetically sealed, the pipes shall then be filled with water to its top, and every joint shall be carefully examined for leakage, and all leaks shall be securely closed before connections with the soil pipes are made, except in cases of inspection of plumbing already existing, the peppermint, ether or smoke test may be substituted by the Municipal Commission or its agent.

(d) The licensed mechanic employed to construct a house drain shall complete his work to the connection branch of the public sewer but no connection shall be made with the public sewer, except under the immediate supervision of the Municipal Commission or its agent and only after it or he shall have personally inspected and accepted the house drain and its plumbing connections and been satisfied that all is strictly in accordance with the requirements of this ordinance, and the permission of the Commission for such connection shall have been duly issued.

(e) Application for license to do any work under this ordinance shall be made in writing to the Municipal Commission on proper blanks provided for that purpose. Every person, firm or corporation to whom a license is granted shall file a bond to be approved by the said Commission in the sum of \$500, conditioned to save harmless and indemnify the village of Herkimer from all damages arising from making connections with the public sewer

and no person, firm or corporation so licensed shall undertake any house drainage or plumbing work to be connected with the public sewers without first having received a special permit for such work in each case. Application for permits for house drainage and sewer connections must be made in writing by the owner of the property or his agent, giving the name of the licensed mechanic who is to do the work and request that said mechanic be authorized therefor. Blanks for such application will be furnished.

SECTION IV. Any person who shall allow any surface water or rain water from the ground or roof of houses or buildings to enter any pipe or drain or any vessel or slop stone connected with any pipe or drain connected with the public sewers, or admit any drainage water from any cellar into such pipe or drain without obtaining permission therefor from the Municipal Commission or its agent, or any person violating any of the provisions of Section III of this ordinance shall be liable upon conviction to pay a fine of not less than \$5, nor more than \$50.

SECTION V. Any person who shall throw, or deposit or cause to be thrown or deposited in any vessel, or receptacle connected with the public sewer any garbage, vegetable parings, ashes, cinders, rags, or other matter or things whatsoever, except faeces, urine, the necessary water closet paper and liquid house slops, or to allow any house drain to be connected with any private vault or cesspool or underground drain, or with any other channel conveying water or filth, excepting the soil pipes and plumbing work of the house or building as hereinbefore provided, shall be liable upon conviction thereof to pay a fine of not more than \$50 for each offense.

SECTION VI. It is made the duty of the Municipal Commission to enforce full compliance with the ordinances in relation to the sewers and the connections therewith, and for that purpose they may appoint a suitable person to act as their agent and any failure of duty on the part of said Commission, or its agent, shall subject the person in default to all the penalties of this ordinance.

SECTION VII. This ordinance shall take effect and go into operation immediately.

352.87.47.
3

Fourth Annual Report

.. Herkimer ..

Municipal Commission.

Herkimer, N. Y.

1899.

FOURTH ANNUAL REPORT
OF THE
MUNICIPAL COMMISSION
OF
HERKIMER, N. Y.,

APRIL 1, 1899.


BOARD OF COMMISSIONERS :

W. P. MUNSON, President.


E. W. SLUYTER, Clerk and Superintendent.

M. L. HAGADORN, Treasurer.

W. P. MUNSON,	Term expires March 31, 1900
D. M. DEVENDORF,	“ “ “ “ 1901
H. CHURCHILL,	“ “ “ “ 1902
C. R. SNELL,	“ “ “ “ 1903



Citizen Publishing Company,
Printers,
Herkimer and Union, N. Y.



Report of Superintendent.

To the Municipal Commission of Herkimer, N. Y.

I herewith submit my fourth annual report of the departments under my charge.

Water.

The water supply has been ample at all times for all demands.

Extensions.

Extensions were made during the year as follows : Seven hundred and twenty-seven feet of six-inch pipe in Folts street, commencing at end of system at Doxtater street, and extending east to Harter street; one thousand one hundred and four feet on Bellinger street, connecting dead ends of South Bellinger with system at the corner of Bellinger and Bellinger avenue—this line of pipe crosses under the N. Y. C. R. R.; four hundred and sixty-six four-inch pipe on William street south of Smith; three hundred and thirty-four feet four-inch pipe on Bellinger avenue extension, west of Bellinger street; four hundred sixty-four feet six-inch pipe on Harter street.

Hydrants have been placed during the year as follows : Corner Steuben and Folts streets; corner Harter and Folts; corner Harter and Green; Bellinger street near residence of John Thompson; South William street at end of line; Bellinger avenue extension at end of line. Six valves were placed in these extensions. The stand pipe was painted with one coat black asphaltum paint. On account of the high water of the last winter some trouble was experienced in keeping hydrants in the water district in working order at all times, but by persistent effort this was accomplished. No hydrants were frozen, and all were ready for fire service during the whole season. Once more I wish to call the attention of water consumers to the fact that our village is constantly growing and the number of water takers is increasing, and to forcibly impress upon them the necessity of avoiding all waste possible in the use of water. Although our water supply has always been ample, unless all unnecessary waste is stopped we are soon coming to a point where the supply will not equal the demand.

Street Sprinkling.

In connection with this subject I wish to quote the language of Superintendent Wino, of the water department of the city of Madison, Wisconsin, who says in his annual report of Sept. 30, 1898: "The use of the fire hydrants by the street sprinkler is a continued nuisance and expense, and endangers the hydrants for fire protection. The street sprinkler will break

a hydrant, thus disabling it for the purpose for which it is intended. He fails to notify the department, and should a fire occur the department will be blamed. Again, by the continuous use of the hydrants during the summer and until late in the fall the soil around the waste of the hydrant becomes thoroughly soaked. It has no time to dry before the frost sets in, and thus endangers the hydrant should it be used during cold weather. The only remedy will be additional valves with hose coupling attached to the hydrants. The greatest trouble is, that the most particular and essential part of a water works plant is a fire hydrant, and it is handled the most carelessly where the plant is owned by the city.

Receipts.

The gross earnings from water rentals show an increase over last year of \$799.63. Net receipts or actual profit to the village, \$3,484.96,—this after paying all maintenance expenses and interest on outstanding bonds. In the above is included no charge for hydrants or water used for fire purposes. This amount of course does not include the money spent for extensions. Such extensions cost \$1,607.99. For particulars of same see Schedule A.

Light.

An arc lamp was placed at the north end of Second avenue near the N. Y. C. R. R. crossing. Series lamps were placed as follows: Washington street in front of north side school building, and at end of Stimson street near the hydraulic. A new lamp has been ordered on German street, to be located at some place north of the A. & St. L. crossing.

Sewers.

There are four hundred and thirty-two connections with the public sewer. During the summer the necessity of keeping roof and street water from the public sewer was again demonstrated. Although they have sufficient capacity for the purpose intended, viz., house sewerage, they become a menace to the public health when overcrowded and made to overflow at low points, as they would if used for general drainage purposes at every hard shower. For more explicit account of this I refer you to Engineer Baxter, whose pointed letter on this subject was printed in the *Citizen* last year.

Police and Fire.

Of these departments I can only say, their records are before you. All have worked in harmony with the Commission, and I believe the public verdict can only be that their work was well and faithfully done.

Yours, E. W. SLUYTER,

Clerk and Superintendent.

Balance Sheet.

Assets.

WATER SYSTEM.

Cost, per report April 1, 1898	-	-	-	\$72,221 94	
Added since—Schedule A	-	-	-	1,607 99	\$ 73,829 93

LIGHT SYSTEM.

Cost, per report April 1, 1898	-	-	-	-	18,081 64	
Added—Schedule B	-	-	-	-	527 17	18,608 81

SEWER SYSTEM.

Cost, per report April 1, 1898	-	-	-	-	57,924 71	
Added since—Schedule C	-	-	-	-	54 92	57,979 63

FIRE SYSTEM.

Cost, per report April 1, 1898	-	-	-	-	-	4,469 78
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INCANDESCENT SYSTEM.

Cost, Incandescent system to date	-	-	-	-	-	929 75
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SUNDRY INVENTORIES.

Light maintenance, Schedule D,	-	-	-	-	462 11	
Water " " E,	-	-	-	-	448 34	
Sewer " " F,	-	-	-	-	134 65	
Police " " G,	-	-	-	-	124 75	
Fire " " H,	-	-	-	-	2,948 40	
General expense account, Schedule I,	-	-	-	-	208 50	
Soft coal " " J,	-	-	-	-	100 00	4,426 75

OUTSTANDING ACCOUNTS.

Due from Town of Herkimer	-	-	-	-	157 45	
" " County " "	-	-	-	-	26 40	
" " Village " " sprinkling	-	-	-	-	340 00	
" " Sundry Persons back water tax	-	-	-	-	32 71	
" " F. A. Gray	-	-	-	-	10 10	
" " M. L. Hagadorn, Treasurer	-	-	-	-	8 33	
" " E. W. Sluyter, Secretary	-	-	-	-	9 65	584 64

\$160,829 29

FOURTH ANNUAL REPORT OF THE

Liabilities.

BONDED DEBT.

Light bonds outstanding,	-	-	-	-	\$14,000 00	
Water “ “	-	-	-	-	57,000 00	
Sewer “ “	-	-	-	-	55,500 00	\$126,500 00
Interest accrued and not due on light bonds,	-				466 67	
“ “ “ “ water “	-				1,523 96	
“ “ “ “ sewer “	-				386 25	2,376 88
Utica Electric Manufacturing and Supply Co.	-	-	-			135 82
Surplus, being excess of assets over liabilities	-	-				31,816 59
						\$160,829 29

Treasurer's Statement.

CASH RECEIPTS.

Balance on hand with Treasurer	-	-	-	-	-	-	-	\$	63 41
Water maintenance	-	-	-	-	-	-	-		7,843 94
Sewer “	-	-	-	-	-	-	-		56 54
Light “	-	-	-	-	-	-	-		179 27
Village Trustees	-	-	-	-	-	-	-		5,882 00
E. B. Mitchell and Gray	-	-	-	-	-	-	-		141 25
Herkimer county	-	-	-	-	-	-	-		14 55
Town of Herkimer	-	-	-	-	-	-	-		392 05
Bill receivable disc.	-	-	-	-	-	-	-		175 00
								\$14,748 01	

CASH DISBURSEMENTS.

For additions to systems	-	-	-	-	-	-	-	\$ 3,119 83
For maintenance accounts	-	-	-	-	-	-	-	11,050 20
Interest on Light Bonds	-	-	-	-	-	-	-	560 00
Balance on hand with Treasurer	-	-	-	-	-	-	-	8 33
* Balance on hand with Superintendent			-	-	-	-	-	9 65
								\$14,748 01

Light Maintenance Account.

OPERATING COST FOR 12 MONTHS, APRIL 1, 1898, TO APRIL 1, 1899.

There are now 70 lamps in the circuit, besides the one in the opera house and one in front of the Edick House.

Superintendent	- - - - -	\$ 180 00
Treasurer	- - - - -	20 00
Labor, Charles Munson	- - - - -	\$ 780 00
“ Martin Manion	- - - - -	36 87
“ W. W. Reynolds	- - - - -	712 50
		<hr/> 1,529 37
Coal	- - - - -	867 96
Carbons	- - - - -	274 32
Repairs to lamps and line	- - - - -	130 55
“ engine and foundation	- - - - -	15 24
“ dynamos	- - - - -	248 04
“ station and boiler	- - - - -	118 70
		<hr/> 512 53
Janitor	- - - - -	6 35
Oil, waste and packing	- - - - -	50 65
Insurance, fire and boiler	- - - - -	36 45
Office rent and fuel	- - - - -	39 47
Postage	- - - - -	3 60
Printing	- - - - -	2 56
Miscellaneous	- - - - -	22 15
Office furniture	- - - - -	10 91
General expense	- - - - -	14 48
Globes	- - - - -	16 85
		<hr/>
Total	- - - - -	\$3,587 65
Less received from Deimel & Schermer for opera house lamp, the one in front of the Edick House and in Whitehead's drug store—deducted because we do not count these lamps in figuring cost per arc light	- - - - -	154 50
		<hr/>
Actual operating expenses	- - - - -	3,433 15
Interest on outstanding bonds for 12 months	- - - - -	560 00
		<hr/>
Total	- - - - -	\$3,993 15

FOURTH ANNUAL REPORT OF THE

We formulate as a matter of general interest three propositions :

First proposition—Actual operating expenses

70 lamps - - - - - \$3,433 15, or per lamp \$49 05

Second proposition—Actual operating expenses

70 lamps - - - - - 3,433 15

Add one year's interest on bonds - - - 560 00

\$3,993 15, or per lamp 57 05

Third proposition—Operating expenses and

interest for 70 lamps - - - - - \$3,993 15

Add 5 per cent. depreciation on plant - 930 44

Operating expenses, interest and depreciation \$4,923 59, or per lamp \$70 34

In comparing municipal plants with those of private ownership it is usual to estimate the amount of annual taxes which the latter are required to pay. If we make this addition it will increase the last amount by \$1.50, or a total of \$71.84.

Actual hours light furnished, 12 months, 3,294.

Candle power per hour furnished for one cent :

First proposition as above - - - - - 1,343

Second " " - - - - - 1,154

Third " " - - - - - 936

Cost per lamp per hour :

First proposition, cents - - - - - 1.48-100

Second " " - - - - - 1.72-100

Third " " - - - - - 2.13-100

Pounds of coal consumed, 12 months - - - - - 932,876

Number of miles of streets lighted - - - - - 13

Plant consists of :

One 6x16 horizontal boiler and one 6½x18, with necessary pumps and fixtures used in connection with water system.

One 100-H. P. Ball tandem compound engine.

Two Edison 50-light arc dynamos.

Necessary switch board, lightning arresters, etc.

Thirty-one T. & H. double carbon lamps.

Nineteen Edison single carbon lamps.

Twenty daylight single carbon lamps.

Two hundred and ninety poles.

Twenty mast arms.

Water Maintenance Report.

FOR TWELVE MONTHS.

[illegible]

RECEIPTS—CREDITED.

[illegible][illegible]

Total gallons of water pumped	-	-	-	-	-	157,363,551
Less 20 per cent. for wastage between pump and consumer	-	-	-	-	-	31,472,710
Net	-	-	-	-	-	125,890,841
Hours actually pumped	-	-	-	-	-	3,943
First proposition—Actual operating expense	-	-	-	-	-	\$3,006 16
Second proposition—With interest on bonds added	-	-	-	-	-	5,001 16
Third proposition—Interest and five per cent. depreciation	-	-	-	-	-	8,612 26
Cost 1,000 gallons water, first proposition, in cents	-	-	-	-	-	2 39-100
“ “ “ “ second “ “	-	-	-	-	-	3 98-100
“ “ “ “ third “ “	-	-	-	-	-	6 84-100

System consists of :

One Knowles compound duplex pump, 11x18½x12x12.

“ “ “ “ “ “ 12x18½x10x12.

Two Knowles vacuum pumps.

One “ feed water pump.

One horizontal tubular boiler, 6x16, with necessary fixtures, used in connection with light system, and one 6½x18 boiler.

Eight-inch pipe	-	-	-	-	-	-	-	8,320 feet
Six-inch pipe	-	-	-	-	-	-	-	11,551 feet
Four-inch pipe	-	-	-	-	-	-	-	29,424 feet
Three-inch pipe	-	-	-	-	-	-	-	400 feet
One and one-half inch pipe	-	-	-	-	-	-	-	528 feet

Total pipe in streets	-	-	-	-	-	-	-	50,223 feet
Eight-inch valves	-	-	-	-	-	-	-	10
Six-inch valves	-	-	-	-	-	-	-	15
Four-inch valves	-	-	-	-	-	-	-	46
Total valves	-	-	-	-	-	-	-	71

Figures Showing Per Capita Consumption, Receipts per 1,000 Gallons, etc.

No. of net gallons delivered as above	-	-	-	-	-	125,890,841
Less used by sewer system	-	-	-	-	-	1,518,360
Total gallons consumed	-	-	-	-	-	124,372,481
Estimating the population at 5,000 equals 68 gallons per day per capita.						
No. of taps	-	-	-	-	-	896
Gallons average per tap for 12 months	-	-	-	-	-	127,723
“ “ “ per day	-	-	-	-	-	350
Meters in use	-	-	-	-	-	27
Gallons of water metered from Jan. 1, '98 to Jan. 1, '99	-	-	-	-	-	8,132,421
Received for same	-	-	-	-	-	\$839 80

Average receipts per 1,000 gallons metered water in cents	-	10 32-100
Gallons of unmetered water for 12 months	- - - -	114,766,700
Receipts for same	- - - - -	\$7,344 14
Average receipts for 1,000 gallons unmetered water in cents		6 39-100

Hydrants belong to the system as follows :

1. North side of German street, opposite Main.
2. Main, near residence of B. Patrick.
3. Main, opposite Court street.
4. Corner Main and Mary.
5. Main, opposite the Herkimer bank.
6. Corner Main and Park Avenue.
7. Corner Main and Albany streets.
8. Main, opposite Mohawk street.
9. Main street, opposite George.
10. Corner Main and Smith streets.
11. Corner Washington and Steele streets.
12. Corner Washington and Smith streets.
13. Corner Washington and Perry streets.
14. Washington street, near Root's store.
15. Corner Washington and Albany.
16. Corner Washington and Green.
17. Washington, opposite Mary.
18. Corner Washington and Court.
19. Corner German and Prospect.
20. Corner German and Washington.
21. Corner Prospect and Church.
22. Prospect street, opposite Quackenbush's shop.
23. North side of Albany, on Prospect.
24. Mohawk street, near residence of E. Reardon.
25. Mohawk street, near Park House.
26. Second Avenue, at north end.
27. First Avenue, at north end.
28. Bellinger street, south of New York Central railroad.
29. Corner Bellinger Avenue and Bellinger street.
30. Corner Bellinger and Church streets.
31. Corner Bellinger and German streets.
32. German street, near H. H. Bellinger's residence.
33. German street, opposite Horrocks' Desk Co.
34. Corner German street and Dorf lane.
35. Dorf lane, near paper mill.
36. Dorf lane, at paper mill.
37. Steuben road, near William Smith's late residence.
38. Corner German street and Westlake avenue.
39. Corner German and Lake streets.
40. Lake street, opposite Orin Cole's residence.

41. Albany street, west side hydraulic canal.
42. Albany street, opposite King street.
43. Corner Eastern avenue and King street.
44. Eastern avenue, near east end.
45. Smith avenue, near S. McLean's residence.
46. Eureka avenue, near center of avenue.
47. Corner Smith and King streets.
48. Corner Smith and Dewey avenue
49. Corner George and William streets.
50. Corner Smith and Bellinger streets.
51. Eastern avenue, opposite Standard Furniture Company.
52. Westlake avenue.
53. German street, near J. G. Bellinger's residence.
54. Church street, near Graham Bellinger's residence.
55. Church street, near H. H. Batchelder's residence.
56. Caroline street, north of Church street.
57. Deimel street, north end.
58. Corner King and Perry streets.
59. Corner King and Steele streets.
60. Steele street, between Washington and King streets.
61. Stimson street, east end.
62. Corner Folts and Doxtater streets.
63. Corner Folts and Stuben streets.
64. Corner Folts and Harter streets.
65. Corner Harter and Green streets.
66. Bellinger avenue extension.
67. Bellinger street, opposite John Thompson's residence.
68. South William street, opposite M. Purpura's residence.

Private hydrants as follows :

- Standard Furniture Company, 1.
- C. R. Snell's lumber yard, 1.
- Morris Mark's mill, 3.
- H. M. Quackenbush's shop, 1.

Police Maintenance Account.

Superintendent's salary	-	-	-	-	-	-	-	-	-	\$	90	00
Treasurer's salary, 12 months	-	-	-	-	-	-	-	-	-		10	00
Police salaries :	J. T. Manion, chief	-	-	-	-	-	-	-	-	\$720	00	
"	"	W. F. Perry	-	-	-	-	-	-	-	592	37	
"	"	L. H. Lacy	-	-	-	-	-	-	-	504	15	
"	"	C. H. Miller	-	-	-	-	-	-	-	92	70	
"	"	Specials	-	-	-	-	-	-	-	177	13	
												\$2,086 35
E. B. Mitchell, police justice	-	-	-	-	-	-	-	-	-		375	00
F. A. Gray	-	-	-	-	-	-	-	-	-		125	00
Uniforms	-	-	-	-	-	-	-	-	-		38	00
Rent police headquarters	-	-	-	-	-	-	-	-	-		50	00
Fuel	"	"	-	-	-	-	-	-	-		14	50
Police expenses	-	-	-	-	-	-	-	-	-		96	19
Furniture	-	-	-	-	-	-	-	-	-		14	46
Stationery and printing	-	-	-	-	-	-	-	-	-		1	75
Office rent and fuel, municipal office	-	-	-	-	-	-	-	-	-		19	73
Postage	-	-	-	-	-	-	-	-	-		1	80
Janitor	-	-	-	-	-	-	-	-	-		3	18
Bicycle depreciation	-	-	-	-	-	-	-	-	-		10	00
Telephone	-	-	-	-	-	-	-	-	-		15	20
Miscellaneous	-	-	-	-	-	-	-	-	-		5	78
												\$2,956 94

EARNINGS.

By F. A. Gray	-	-	-	-	-	-	-	-	-	\$	24	30
By E. B. Mitchell	-	-	-	-	-	-	-	-	-	127	05	
By town of Herkimer	-	-	-	-	-	-	-	-	-	486	40	
By county of Herkimer	-	-	-	-	-	-	-	-	-	40	95	
Total earnings	-	-	-	-	-	-	-	-	-		678	70
Net operating cost	-	-	-	-	-	-	-	-	-	\$2,278	24	

Schedules.

Schedule A.

CHARGES TO WATER SYSTEM.

1191 feet 6 inch C. I. pipe and 1904 4 inch C. I. pipe, 6 hydrants and 3 6-in. and 4 4-in. valves - -	\$1,054 45
Labor extending mains on Folts, Bellinger, South Wil- liam, Harter streets and Bellinger avenue, -	182 29
Lead etc. for above - - - - -	53 31
	<hr/> \$1,290 05
Meters - - - - -	54 75
Building bank along creek (part) - - - - -	245 50
Corporation cocks - - - - -	17 69
	<hr/> \$1,607 99

Schedule B.

ADDITIONS TO LIGHT SYSTEM.

Lamps - - - - -	\$138 38
Poles - - - - -	87 00
Labor - - - - -	9 00
Wire - - - - -	47 29
Building bank along creek - - - - -	245 50
	<hr/> \$527 17

Schedule C.

ADDITIONS TO SEWER SYSTEM.

Vitrified pipe - - - - -	\$54 92
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Schedule D.

LIGHT MAINTENANCE, INVENTORY, MATERIAL, ETC. ON HAND.

1550 carbons - -	\$ 12 00	1 volt meter - - -	25 00
19 insulator pins - -	57	2 ladders - - -	3 00
4 " brackets -	16	4 hoods - - -	18 00
15 " glass - -	45	2 steel bars - - -	2 00
1 pair magnets - -	1 75	Cable - - -	5 00
2 " climbers - -	2 50	3 T. H. lamps - - -	60 00
1 pole yoke and pike -	1 00	4 D. L. lamps - - -	40 00
1 pole Y - - -	25	1 tree trimmer - - -	1 00

Pulley blocks and rope - - -	3 00	Cable - - - - -	5 00
1 engine ring - - - -	2 00	3 T. H. lamps - - - -	60 00
1 vise - - - - -	1 50	4 D. L. lamps - - - -	40 00
2 cut outs - - - - -	6 00	1 tree trimmer - - - -	1 00
Lamp repairs - - - -	10 00	1 hanger board - - - -	1 50
20 globes - - - - -	15 00	1 barrel cement - - - -	1 25
1 stove - - - - -	5 00	2 coal barrows - - - -	1 00
1 cupboard - - - - -	3 00	2 switches - - - - -	50
200 lbs. copper wire - - -	40 00	Quantity wire - - - -	2 00
5 series lamps - - - -	5 00	Sundry small articles -	5 00
Incandescent lamps - - -	5 00	75 lbs. old copper - - -	7 50
2 pair lineman's gloves -	3 00	40 lbs. guy wire - - -	1 20
Dynamo brushes - - - -	4 00	1 A B lamp - - - - -	20 00
7 30-foot poles - - - -	21 00		
2 35-foot poles - - - -	8 00		\$354 13
2 magneto bells - - - -	10 00	Insurance - - - - -	16 58
1 volt meter - - - - -	25 00	Add ½ schedule K - - -	91 40
2 ladders - - - - -	3 00		
4 hoods - - - - -	18 00		\$462 11
2 steel bars - - - - -	2 00		

Schedule E.

WATER MAINTENANCE, INVENTORY, MATERIAL, ETC. ON HAND.

3 meters ½ inch - - - \$	27 00	1 reducer 8x4 - - - \$	1 75
1 meter ¾ inch - - - -	12 00	1 hydrant extension - - -	2 00
1 meter 2 inch - - - -	40 00	4 gate valves 2 inch - -	25 00
Picks and shovels - - -	2 00	1 reducer 8x6 - - - -	2 00
1 lot hydrant seats - - -	3 00	1 Y 8x8 - - - - -	11 00
1 steam pump - - - - -	25 00	1 Y 8x4 - - - - -	5 96
Pipe and fittings - - -	15 00	23 feet 8-inch C. I. pipe -	18 00
Valve springs - - - - -	15 00	Quantity of pipe fittings -	15 00
3 valve wrenches - - - -	4 00	2 straight way valves 6 inch	30 00
1 water gauge - - - - -	10 00	Calking tools - - - - -	3 00
24 feet 4-inch C I pipe -	4 50	1 C. I pipe cutter - - -	12 00
1 C I ell 6 inch - - - -	2 00	1 feed water heater - - -	10 00
4 C. I. tees 8x4 - - - -	25 00	Insurance - - - - -	16 57
4 sleeves 8 inch - - - -	10 00		
1 sleeve 6 inch - - - - -	1 25		\$356 94
2 sleeves 4 inch - - - -	2 50	Add ½ schedule K - - -	91 40
5 plugs 8 inch - - - - -	3 50		
2 plugs 6 inch - - - - -	90		\$448 34
1 increaser 6x8 - - - -	2 00		

Schedule F.

SEWER MAINTENANCE, INVENTORY MATERIAL, ETC., ON HAND.

1 ½ ton coal	-	-	-	\$ 4 50	40 feet 18-inch soil pipe	\$ 14 00
1 wrench	-	-	-	40	25 Y's, 12-inch	- - - 22 50
1 quantity wood	-	-	-	1 00	20 Y's 8-inch.	- - - 8 00
Fire tools	-	-	-	35	1 Increaser, 8x10	- - - 50
1 reducer 8x10	-	-	-	50	Man-hole gaskets	- - - 1 00
2 bends 20 inch	-	-	-	3 00	1 Catch basin	- - - 12 00
3 tees 12x12	-	-	-	2 70	Insurance	- - - 8 60
2 tees 10x20	-	-	-	4 00		
120 feet 20-inch soil pipe	-			51 60		<u>\$134 65</u>

Schedule G.

POLICE MAINTENANCE, INVENTORY MATERIAL, ETC., ON HAND.

3 helmets	-	-	-	\$ 3 00	1 doz. police clubs	- - - \$ 1 50
100 police manuals	-	-	-	3 00	2 desks	- - - 13 50
2 call whistles	-	-	-	75	1 record book	- - - 50
3 chairs	-	-	-	3 00	1 stove	- - - 12 00
1 bicycle	-	-	-	15 00	3 suits police uniforms	- 27 00
10 badges	-	-	-	6 00	2 overcoats	- - - 10 00
3 pairs handcuffs	-	-	-	6 00	1 " "	- - - 20 00
1 pair nippers	-	-	-	1 00		
4 twistors	-	-	-	2 50		<u>\$124 75</u>

Schedule H.

FIRE MAINTENANCE, INVENTORY MATERIAL, ETC., ON HAND.

30 hose washers	-	-	\$ 1 50	1 hose sleigh	- - - \$ 3 00
1 fire engine	-	-	1,000 00	1 hand truck	- - - 3 00
1 hook and ladder truck			400 00	6 hand nozzles	- - - 40 00
1800 feet old hose	-		360 00	1 spray nozzle	- - - 20 00
500 feet new hose	-	-	200 00	1 back pressure valve	- 30 00
4 set hose couplings	-	-	4 00	30 hose wrenches	- 10 00
7 hydrant wrenches	-		5 00	3 Y	- - - 1 50
3 hose carts	-	-	40 00	Blue vitrol	- - - 3 00
1 hose cart	-	-	54 00	34 working suits	- - - 225 00
1 globe stove	-	-	1 00	35 parade suits	- - - 475 00
1 heater	-	-	18 00	Insurance	- - - 6 40
3 Cooper hose jackets	-		45 00		
Chemicals for fire extinguishers			3 00		<u>\$2,948 40</u>

Schedule I.

GENERAL EXPENSE ACCOUNT, INVENTORY.

1 desk - - - -	\$ 10 00	Stove and Fittings - -	15 00
1 " - - - -	5 00	3 chairs - - - -	10 00
Building - - - -	110 00	Books and stationery -	3 00
Plumbing - - - -	55 00		
1 waste basket - -	50		<u>\$208 50</u>

Schedule J.

SOFT COAL ACCOUNT, INVENTORY.

50 tons coal - - - - -	\$100 00
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Schedule K.

GENERAL INVENTORY. LIGHT AND WATER.

1 pair telephones - -	\$ 20 00	40 gallons engine oil -	5 20
40 lbs. waste - - - -	2 40	30 " cylinder oil -	10 50
10 lbs. gasket packing -	4 00	Fire brick - - - -	2 50
Fire clay - - - -	1 00	1 flue blower - - - -	4 00
1 oil pump - - - -	1 00	Pipe cutting tools -	4 00
Carpenter tools - -	1 75	1 level - - - -	75
7 lbs. ring packing -	5 25	1 lubricator - - - -	2 00
Sheet rubber - - - -	1 50	1 lawn mower - - - -	5 00
1 table - - - -	3 00	2 steel bars - - - -	2 00
2 one-barrel oil cans -	8 00	3 screw wrenches - -	2 00
6 pipe wrenches - -	7 00	4 lanterns - - - -	1 20
1 pair chain tongs - -	5 00	80 feet fire hose - -	20 00
1 vise - - - -	7 00	1 keg pipe cement -	2 00
1 eight-day clock - -	3 00	¼ barrel cleaning material	1 50
Fire tools - - - -	3 75	1 bag Magnesia covering	2 00
Hoisting tackle - -	5 00	25 gallons paint - -	10 00
2 scoops - - - -	1 00	2 pieces rope, ¾ - -	2 00
1 steel barrow - - - -	10 00	2 chairs - - - -	1 50
2 flue cleaners - - - -	12 00		
Soda ash - - - -	3 00		<u>\$182 80</u>

Report of Chief of Police.

Showing number of arrests for the year, character of offense charged and disposition of prisoner :

Offense Charged.

Disorderly - - - -	120	Grand larceny - - - -	3
Assault, 3rd degree - -	10	Vagrancy - - - -	6
Defrauding, board bill - -	3	Search warrants - - - -	1
Violating compulsory ed. law	4	Assault, 2nd degree - - - -	1
Violation of Sec. 382 Code -	1	Cruelty to animals - - - -	2
Petit larceny - - - -	22	Violation liquor tax law - - - -	1
Malicious mischief - - -	2		
			176

Sentence.

Sentence suspended - - -	68	Held for grand jury - - -	6
Paid fines - - - -	24	House of Refuge - - - -	1
Charge withdrawn - - - -	21	County House - - - -	1
Discharged - - - -	19	Industrial School - - - -	1
Albany penitentiary - - -	10		
County jail - - - -	25		176

Rules and Regulations for the Use of Water.

I. *Applications for Water.*—All applications for the introduction or supply of water to any premises, or for the extension of any pipe for the conveyance of such water, must be made in writing on the books of the Commission, and if the applicant is not the owner of the premises, the written consent of the owner must accompany the application.

When more than one building, or one tenant, is supplied through one service pipe, the application for the supply of such buildings, or tenants, shall be made by one person, and said person shall be held responsible for all supplies through said service pipes.

II. *No Permits*—No permits will be granted for baths, water closets, or wash basins, when it is not also taken for household or office purposes.

III. *Plumbing.*—The introduction of service pipe for the supply of premises with water, and all plumbing of every description, for the use or distribution thereof, must be done by plumbers licensed by the Commission, and who shall be under bonds to the Commission for the faithful performance of their work, in accordance with the Rules and Regulations of the Commission.

Penalty.—For any violation of this rule a penalty of ten dollars will be incurred, and the use of water will not be allowed on the premises until the same is settled.

IV. *Applications for Additions and Alterations.*—No additions or alterations whatever, in or about public or private pipes, shall be made by any person until the application therefor has been made on the books of the Commission, and a written permit given by the Superintendent or Secretary.

Penalty—For any violation of this rule a penalty of ten dollars will be incurred, and the flow of water will be stopped until the same is settled.

V. *Commission Not to Connect.*—The plumbing on the premises to be supplied with water must be completed before any connection with the mains shall be made; and the Commission reserves the right to decline to connect the plumbing not in accordance with the Commission's Rules and Regulations.

VI. *Openings and Work in Streets.*—The streets must be opened and the paving stones and earth deposited in a manner that will occasion the least inconvenience to the public and provide for the passage of water along the gutters; the paving and flagging must be restored as quickly as possible to as good condition as previous to the excavation, and all work in the streets in making service connections and repairs, must be at the sole risk and responsibility of the person having the same done, or of the plumber doing the same.

VII. *Owner or Tenant Must Not Supply Other Persons. Must Have Independent Service, Except by Permission. Where Two or More are Supplied by One Service.*—No owner or tenant of any premises supplied with water by the works will be allowed to supply water to other persons or families; if found so doing the supply will be stopped and the amount paid forfeited; and except where special permission is granted by the Commission, each consumer must be supplied by independent service pipe from the main. In case two or more parties are supplied with water from the same service, if either of the said parties fail to pay the water rates when

due, or to comply with any rule of the Commission, the Commission may turn off the water from such pipe until the rent is paid and the rule strictly complied with.

VIII. *Service Pipe and fixtures Subject to Approval of Commission. Service Cock.*—All lateral or service pipes, for public or private use, and all necessary fixtures connected therewith, shall be subject to the approval and laid under the supervision of the Superintendent; said pipes, etc., should be protected from the frost by and at the expense of the applicant. All connections with the street mains will be made by the Commission, and there shall be a suitable stop-cock, with well and cover, as prescribed and provided by the Commission, for which the applicant must pay the Commission at the time of making such application. Such connection will be regarded as a part of the main pipe, and will belong to the Commission; also, in all cases, a stop-cock with well and cover, shall be put in at the curb, or outer edge of the walk, and another, with waste, inside of cellar wall.

IX. *Use for Protection.*—The Commission has the right to use any of the service cocks when necessary for its own protection.

X. *Turning on Water.*—No plumber or consumer shall turn on water to any premises, whether old or new supply.

XI. *Notice when Connection to be Made or Water Turned Off.*—Notice must be left at the office of the Commission the day before any service is to be put in, stating the street and the number of the location and the name of the person owning or occupying the premises, and the exact time when the trench will be ready for making the connection; and a like notice must be left when the water is to be turned on to any premises.

XII. *Street and Lawn Sprinklers.*—The season for the use of water for street or lawn sprinklers, or yard fountains, begins May 1st and expires on November 1st.

No abatement in the regular charge will be made for any fractional part of the term.

The use of hand hose for street sprinkling will not be allowed between the hours of 9 A. M. and 4 P. M.

All hose attachments, if used as sprinklers, will be charged in addition as sprinklers, and subject to the rules regarding sprinklers.

Street sprinklers or washers, must not be used to sprinkle beyond the center of the street, or the limits of the premises of those paying for them; or for filling cisterns, or converted into jets, or be used for washing down the collections of the gutters upon neighboring premises, or used to flood the streets, but merely to sprinkle them, and must not be permitted to run except when in actual use; and it is expressly understood that the water paid for as street or lawn sprinklers, cannot be used for any other purpose, except in case of fire; and parties so using it are liable to have the water turned off without notice.

XIII. *Waste Water.*—Taps at sinks, wash basins, water closets, bath, urinals, sprinklers, and for other uses, must be kept closed when not in actual use, and not be allowed to leak.

XIV. *Fountains.* No yard fountain, or jet, shall be used longer than six hours a day for six months in the year, without special arrangement; and the application shall state at what hours it shall be used, and if found running at any other time the water will be shut off from the premises.

XV. *Inspection of Premises.*—The Superintendent personally, and any person delegated by him for that purpose, must at all reasonable hours have free access to all parts of the premises where water is delivered for the purpose of inspection, examination of fixtures, etc., and all persons using water must, at all times, frankly, and without concealment, answer all questions put to them relating to its consumption.

XVI. *Vacating Premises. Transfer of Balance of Rates Paid.*—Consumers vacating their premises must give notice at the office of the Commission, that the water may be shut off; and they will be held responsible for the water rate until such notice is given. Where there is a change of occupants the balance of a bill paid in advance may be transferred, on notice at the time, to other premises for the same uses, but no balance of a bill will be refunded.

XVII. *Leaks.*—When leaks occur in service pipes at any point beyond the main pipe, they must be immediately repaired by the owner or occupant; and if not repaired within a reasonable time, after notice, the water will be shut off until repaired.

XVIII. *Payment of Water Rates.*—All water bills shall be paid on the first day of April and October, at the office of the Commission, in advance; street washers, fountain and yard sprinklers, payable for the season. All bills must be paid within thirty days from date of same, or water will be shut off without notice. When meters are used, the estimated amount shall be paid in advance, subject to meter measurement.

XIX. *Water Closets.*—None but self-closing water closets or urinals shall be used, which must be subject to the approval of the Superintendent.

XX. *Fraudulent Misrepresentations, Uses, Waste, Etc.*—In case of misrepresentation on the part of the applicant, or of uses of water not embraced in the application, or of willful or unreasonable waste of water or violation of any of the Rules and Regulations of the Commission, or non-payment of rates when due, in addition to the penalties hereinbefore imposed, the water will be cut off without notice, and the payments will be forfeited, and the water will not be turned on again unless upon satisfactory assurance that no further cause of complaint shall arise and the payment of such penalty as the Commission shall impose; and the sum of one dollar will be charged for turning on the water again.

XXI. *Check Valve.*—All house and other boilers shall be fitted with a suitable check valve to prevent accidents from collapse or damage in case the water is suddenly drawn off from the main pipes.

XXII. *Meters.*—The Commission reserves the right to attach meters at any time whenever they shall deem it expedient, and charge for the quantity of water measured, or used, instead of the special rates. A reasonable charge will be made for the use of the meters.

XXIII. *Deficient Supply.*—The Commission reserves the right to shut off the water for alterations, extensions and repairs, and to stop and restrict the supply of water whenever it may be found necessary; and the Commission shall not be liable, under any circumstances, for the deficiency or failure in the supply of water, whether occasioned by shutting off the water to make repairs, or connections, or for any other cause whatever.

XXIV. *No Rebates for Partial Uses.*—No rebate from rates will be allowed for partial use of water from wells, cisterns, etc.

All fixtures for the supply of water for which the Commission have regular rates must be paid for or disconnected from service pipe.

XXV. *Changing Rules and Rates.*—The Commission reserves the right to change the Rules and Regulations and the rates for the use of water from time to time, and to make special rates, or contracts, in all proper cases.

XXVI. *Right to Use Water as Agreed Only.*—The Commission agrees to furnish water on certain terms for certain specified uses, for a certain sum.

Therefore, the consumer will not be permitted to use it for any other purpose than that stated in the agreement.

Rules for Plumbers.

1. In no case must a plumber turn on water for a consumer without the written consent of the Commission, under a penalty of ten dollars.
2. The Commission will furnish and put in Corporation Taps, and no other person will be allowed to tap the mains.
3. The tapping will be done at the expense of the applicant.
4. All service pipes from the mains to the curb stone must be equal in strength to "AA" lead pipe. Where service pipe of a more rigid material than lead pipe is used, it must be connected with the mains by at least two feet of lead pipe, and the stopcock at the end must have nut and washer.
5. The service pipe must be laid at least four feet below the surface of the street, and in such a manner as to prevent rupture by settling, and must be provided a Glauber Improved Stopcock at the curb stone in all cases, whether a street washer is attached or not, protected by a box of the Gould pattern leading from the same to the surface, with an iron cover, with the word "water" marked thereon and so exposed as to be readily found; the whole to be subject to the approval of the Commission.
6. Notice must be left at the office of the Commission on the day previous to the one on which the tapping will be required, stating the hour when the street will be open at the main; and after the tapping is done the connections must be made, and the street and pavement put in good condition, and all rubbish removed with as little delay as possible.
7. All service pipe shall be at least one-eighth of an inch larger in the interior than the Corporation Tap.
8. A Glauber stop and waste cock must be located inside the building, and the pipes so arranged that the water can be drawn from them whenever there is danger of its freezing.
9. No plumber will be allowed to open the street for the introduction of service pipe without a written permit from the Commission; and the water must not be turned on for use until an application has been signed at the office of the Commission, stating fully the purposes for which the water is to be used.
10. No addition or alteration whatever, in or about any public or private pipe, conduit, water cock or other fixtures, shall be made by any person without permission first had in writing from the Superintendent. Any plumber or other person making such addition or alteration shall be subject to a penalty of ten dollars for each offense.
11. Each plumber will be provided with blanks which are to be filled out and returned to the office of the Commission as soon as the work is completed.
12. On the first day of May in each year any plumber wishing to engage in repairs of Herkimer water pipes, or laying new services, must obtain a permit from the Commission, and in case of a violation of any of the above rules the permit will be revoked.
13. All fixtures, except water closet tanks, hereafter connected with the Herkimer water works on either old or new work, shall be Fuller pattern bibbs, basin or pantry cocks.
14. All house or other boilers shall be fitted with a suitable check valve to prevent accidents from collapse or damage in case the water is suddenly drawn off from the main pipes.

Tariff of Annual Rates.

BATHS.		OFFICES.	
Public, each tub.....	\$ 15 00	Law.....	\$ 4 00
Hotel, ".....	10 00	Physician.....	4 00
Boarding Houses, each tub.....	5 00	Dentist.....	6 00
Private Dwe lings.....	3 00	Bath Tub.....	3 00
" " each additional tub	1 50	Water Closet.....	3 00
BARBER SHOP.		Urinal.....	3 00
First Chair.....	4 00	PRINTING OFFICES.	
Each additional chair.....	1 00	For ten hands or less.....	10 00
BAKERIES.		Each additional hand.....	1 00
One Faucet.....	6 00	(Exclusive of Steam Engine.)	
Provided that no bakery shall		PHOTOGRAPH GALLERIES.	
pay less than \$6.00 per annum,		One Faucet.....	6 00
exclusive of charge for steam		RESTAURANTS AND SALOONS.	
boilers.		One Faucet.....	10 00
BOARDING HOUSES.		SLEEPING ROOMS.	
From.....\$5 00 to	\$20 00	In Blocks or Stores, each.....	4 00
Baths, per tub.....	5 00	Bath Tub.....	3 00
Water Closets, each.....	6 00	Water Closet.....	3 00
" " each additional..	3 00	Urinal.....	3 00
Urinals, each.....	4 00	SCHOOLS—(Not Boarding.)	
BUILDING PURPOSES.		For 25 scholars or less.....	6 00
Laying stone, per cubic yard...	3 cts	Each additional scholar.....	05
Laying brick, per thousand	4 cts	SODA FOUNTAINS.	
Plastering, per 100 square yards	20 cts	One Faucet.....	8 00
BLACKSMITH SHOPS.		STEAM ENGINES.	
One Fire.....	4 00	Per horse power, up to 15 horse	
Each additional.....	1 00	power	
DWELLINGS.		Each additional horse power....	
For a family, in a house, one		STORES.	
faucet.....	4 00	Provision, Drug, Grocery and	
For each additional faucet (not		Liquor.....	4 00
including bath tub or water		Other stores.....	4 00
closets).....	1 00	STABLES.	
FOUNTAINS.		Livery, Omnibus and Boarding	
(To be used 6 hours per day for		stalls, each.....	1 00
6 months in the year.)		Private, with water for washing,	
1-16 inch delivery.....	5 00	not exceeding one horse.....	2 50
Each additional jet of 1-16 inch.	3 00	Each additional horse.....	50
1/8 inch delivery.....	8 00	Each cow.....	50
Each additional jet of 1/8 inch...	4 00	Hotel Stables, per stall.....	50
GREEN HOUSES.		SPRINKLERS Street, See Rule 12.	
Private	4 00	One front, not exceeding 50 feet	2 50
Public.....	10 00	Each additional foot above first	
HOTELS.		50 feet, per running foot.....	05
From.....\$5 00 to	20 00	If on corners, additional to above	
Bath Tubs, each.....	10 00	per foot.....	2 1/2 cts
Water Closets.....	6 00	All Hose Attachments to be	
Urinals.....	3 00	charged as sprinklers	
Wash basins in sleeping rooms,		SPRINKLERS—Lawn or Garden.	
whether supplied by faucet or		For watering Lawns or Gardens,	
carried to rooms.....	50	and washing inside walks,	
LAUNDRIES.		stoops and outside of buildings,	
General purposes.....	10 00	included in street sprinkling..	
MECHANICAL SHOPS.		If revolving or movable sprink-	
Not exceeding 25 hands.....	8 00	lers are used, one half the	
Each additional hand.....	10	above rates will be added.	
Water Closets, each.....	6 00	WASHTUBS—Permanent.	
Urinals, each.....	3 00	In use for not more than eight	
MARKETS.		persons.....	1 00
Meat or Fish.....	4 00	Per each additional.....	1 00
		WATER CLOSETS.	
		Private dwellings.....	3 00
		Banks.....	6 00
		Saloons.....	10 00

Sewerage Ordinance.

SECTION I. The Board of Health and the Municipal Commission, or either of such Boards shall have power to stop and prevent the discharge of sewerage from any premises in the village of Herkimer into or upon any public highway, stream, or water course or public place, or into any drain, cess-pool or private sewer, or to order a connection to be made with the public sewer, for the removal of sewage from any premises whenever in the opinion of either of such Boards the public interest demands it; and any person who shall neglect or refuse to comply with the order of such Board within ten days from the service of notice that any such order has been made, shall be guilty of a misdemeanor, and shall pay a fine of not less than \$10, nor more than \$50, upon conviction thereof.

SECTION II. It shall be a misdemeanor to do, or cause to be done, any of the following acts, except as hereinafter provided; and any and all persons guilty thereof shall be liable upon conviction to pay a fine of not less than \$5, nor more than \$50, for each offense.

1. To uncover the public sewer for any purpose, or make connections therewith, or to uncover the public inspection or connection branches thereof, or to open any manhole, or flush tank, unless and except with the written consent and under the supervision of the Municipal Commission or its authorized agent.

To do or to cause to be done any injury of any kind in any manner to the pumping station building, the engine and pumps or any connection therewith, or outlet pipe or any part of the apparatus, or any other of the appliances, connections, or parts of the public sewers.

2. To make or cause to be made any connection for the removal of sewerage from any premises with the storm water drain of the village or with any stream or water course within the limits of the village.

3. To make or cause to be made any connection with a house connection, or to connect any closet with a branch of the public sewer, except under a written license for the work signed by the Municipal Commission or its duly authorized agent.

4. To make or cause to be made any such connections, by any person than a mechanic, duly authorized to do such work by the Municipal Commission or the Board of Trustees of the Village of Herkimer or to make any such connection in any manner other than as follows, to wit:

(a) Every pipe connecting with the sewer from a point five feet outside the foundation walls of the building proposed to be connected must be either of heavy cast iron or of salt glazed vitrified earthenware; must be sound and impervious in all its parts; must be proportionately laid on a true grade as nearly as possible in a straight line; all changes in its direction must be made with properly curved pipe; must be jointed in the best manner, and covered to a depth of at least one foot with well rammed fine earth, entirely free from stone and rubbish, within forty-eight hours after the back filling of the trench is completed the paving or ballast must be replaced and the street left in the best condition to the satisfaction of the Municipal Commission, or its duly authorized agent, and in no case shall the public sewers

be used by any private individual, until the connections therewith have been inspected and approved by the Municipal Commission or its duly authorized agent, and permission in writing for such use has been granted by the said Municipal Commission or its duly authorized agent.

(b) In all cases gaskets must be used to prevent cement or lead from running into the pipes.

(c) No drain connected with the sewer shall be laid with a less inclination or grade than one in sixty without the written permission of the Municipal Commission or its duly authorized agent.

(d) All drains connected with the public sewer shall be at least four inches in interior diameter. No earthenware pipe shall be laid less than two feet six inches deep. Pipes laid at less depth than the above shall be of heavy cast iron with well caulked lead joints.

(e) No person or corporation shall hereafter lay any pipe or conduit for any purpose whatsoever in any street within five feet on either side of the public sewer in such street without the permission of the Municipal Commission.

(f) No more than one building shall be connected with the public sewer through one drain without special permit signed by the Municipal Commission or the president thereof.

(g) In opening trenches on any street or public way the paving or ballast must be removed with care; the sides of the trench must be sheeted or braced when directed by the Municipal Commission or its agent, the earth thrown from the trenches must be placed so as to cause the least obstruction possible to public travel, gas and water pipes must be protected from injury and the trench enclosed and lighted at night, and every precaution necessary taken to prevent injury to persons and property, during the progress of the work as it shall be directed by the Municipal Commission or its duly authorized agent.

(h) Any settlement over a drain connecting with the public sewer occurring within ninety days after it has been laid shall be repaired at the expense of the owner of the property from which such drain has been laid.

(i) Notice must be left at the office of the Commission or its agent at least twenty-four hours before the beginning of any work upon a drain, and no material shall be used or work covered until inspected by the Commission or its duly authorized agent.

(j) Permits to make connections with the public sewers shall be issued only when the plumbing in the house or building to be connected is in accordance with the rules for plumbing hereinafter described.

SECTION III. Before any building can be connected with the public sewer the plumbing in such building shall be inspected by the Board of Municipal Commission or its duly authorized agent and approved by him and a certificate of such approval filed in the office of the Commission. Under no circumstances can any mechanic doing the work of plumbing or house drainage, or any employee of such mechanic, act as the agent of the Commission to perform the duties prescribed in this ordinance.

(a) All pipes from the sewer connections to the top of the soil pipes shall be fully three inches in diameter at every point.

(b) No trap or manner of obstructions to the free flow of air through the whole course of the drain and soil pipes will be allowed, and any mechanic or other person who shall directly or indirectly place, make, cause or allow to be placed or made any trap, obstruction, contraction or other obstacle anywhere in the course of such drain or soil pipes shall be liable to pay a fine of not less than \$5, nor more than \$40, for each and every offense, and, if a licensed plumber, shall be liable upon conviction of such offense to forfeit his license and shall be ineligible to relicense for one year.

(c) Every connection of a water closet, sink, basin or other vessel con-

nected with the soil pipe or drain must be separated from it by at least one trap properly arranged so as to prevent the passage of air or gas from the soil into the building. All details of plumbing work must be of a kind and quality to be approved by the said Commission or its duly authorized agent. The discretion of said Commission or its agent in approving plans and accepting the work as above shall be limited only by the following requirements, viz.:

1. No water closet shall be set up in any house or building in which its walls are not freely and fully washed by the normal discharge of the closet at each operation, nor shall any hopper closet be set up which has a trap of less than one and three-quarter inches seal.

2. Every trap constructed which is so situated as to be subject to siphonage by momentum or by suction shall be of a kind that can not have its water seal broken by siphonage or shall have an effective mechanical seal.

3. No cowl, return bend or cap shall be used at the top of any soil or vent pipe.

4. Every lateral branch extending more than fifteen feet from a ventilated soil or vent pipe with which it is connected shall be independently vented through the roof of the building up a pipe of its full diameter. There shall be no trap in the course of such branch or vent pipe, each fixture being independently connected with it and having its own trap.

5. No fixture shall be trapped by having its outlet connected with the trap of another fixture.

6. From a point five feet outside the foundation walls of a building no material may be used for soil, waste and vent pipes other than wrought iron or cast iron pipes with securely leaded joints or lead pipes with soldered or wiped joints. Cement or putty joint, tin or sheet iron pipes, whether galvanized or not, shall not be used.

7. No connections may be made at any point of the house drainage system with roof gutters or any other channel for the conveyance of rain-water without permission from the Municipal Commission or their agent except that plumbing fixtures may be supplied from tanks constructed to store rain or city water for such purpose.

8. All soil and water pipes shall be direct as possible and all parts of the work shall be so arranged that they may be at all times readily examined and repaired. Before the fixtures are placed in connection with the plumbing of any house or building and before said pipe is connected with the drain the outlet of the soil pipe and all opening into it shall be hermetically sealed, the pipes shall then be filled with water to its top, and every joint shall be carefully examined for leakage, and all leaks shall be securely closed before connections with the soil pipes are made, except in cases of inspection of plumbing already existing, the peppermint, ether or smoke test may be substituted by the Municipal Commission or its agent.

(d) The licensed mechanic employed to construct a house drain shall complete his work to the connection branch of the public sewer, but no connection shall be made with the public sewer except under the immediate supervision of the Municipal Commission or its agent, and only after it or he shall have personally inspected and accepted the house drain and its plumbing connections and been satisfied that all is strictly in accordance with the requirements of this ordinance, and the permission of the Commission for such connection shall have been duly issued.

(e) Application for license to do any work under this ordinance shall be made in writing to the Municipal Commission on proper blanks provided for that purpose. Every person, firm or corporation to whom a license is granted shall file a bond to be approved by the said Commission in the sum of \$500, conditioned to save harmless and indemnify the village of Herkimer from all damages arising from making connections with the public sewer,

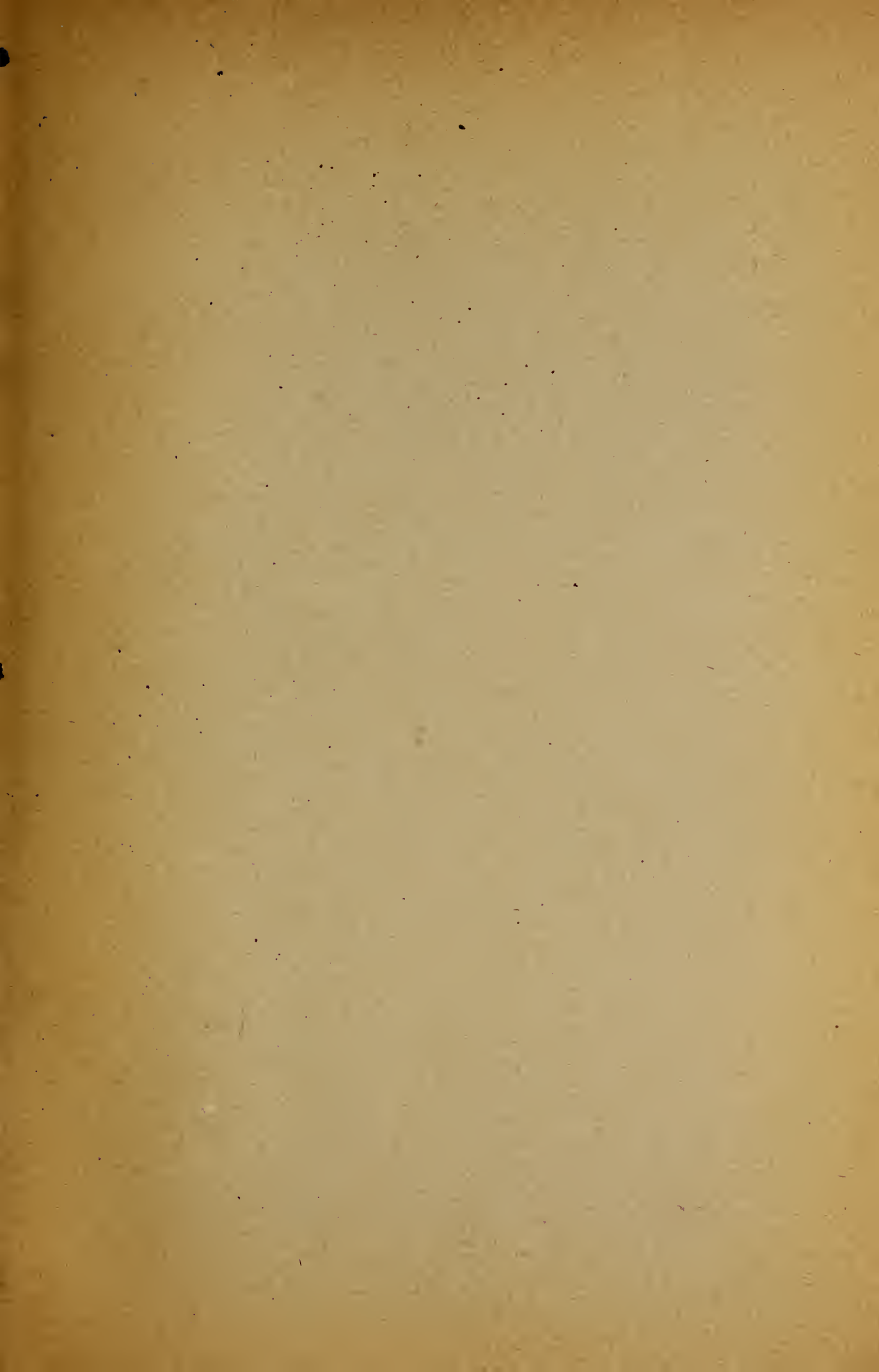
and no person, firm or corporation so licensed shall undertake any house drainage or plumbing work to be connected with the public sewers without first having received a special permit for such work in each case. Application for permits for house drainage and sewer connections must be made in writing by the owner of the property or his agent, giving the name of the licensed mechanic who is to do the work and request that said mechanic be authorized therefor. Blanks for such application will be furnished.

SECTION IV. Any person who shall allow any surface water or rain water from the ground or roof of houses or buildings to enter any pipe or drain or any vessel or slop stone connected with any pipe or drain connected with the public sewers, or admit any drainage water from any cellar into such pipe or drain without obtaining permission therefor from the Municipal Commission or its agent, or any person violating any of the provisions of Section III of this ordinance shall be liable upon conviction to pay a fine of not less than \$5, nor more than \$50.

SECTION V. Any person who shall throw or deposit, or cause to be thrown or deposited, in any vessel or receptacle connected with the public sewer any garbage, vegetable parings, ashes, cinders, rags, or other matter or things whatsoever, except faeces, urine, the necessary water closet paper and liquid house slops, or to allow any house drain to be connected with any private vault or cesspool or underground drain, or with any other channel conveying water or filth, excepting the soil pipes and plumbing work of the house or building as hereinbefore provided, shall be liable upon conviction thereof to pay a fine of not more than \$50 for each offense.

SECTION VI. It is made the duty of the Municipal Commission to enforce full compliance with the ordinances in relation to the sewers and the connections therewith, and for that purpose they may appoint a suitable person to act as their agent, and any failure of duty on the part of said Commission or its agent shall subject the person in default to all the penalties of this ordinance.

SECTION VII. This ordinance shall take effect and go into operation immediately.



352.0747

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Fifth Annual Report
.. Herkimer ..
Municipal Commission.
Herkimer, N. Y.
1900.

FIFTH ANNUAL REPORT

OF THE

MUNICIPAL COMMISSION

OF

HERKIMER, N. Y.

APRIL 1, 1900.


BOARD OF COMMISSIONERS:

D. M. DEVENDORF, President.


E. W. SLUYTER, Clerk and Superintendent.

J. S. MATHEWS, Treasurer.

D. M. DEVENDORF,	Term expires March 31, 1901.
H. CHURCHILL,	" " " " 1902.
C. R. SNELL,	" " " " 1903.
W. P. MUNSON,	" " " " 1904.



Citizen Publishing Company,
Printers,
Herkimer and Union, N. Y.



Report of Commission.

HERKIMER, N. Y., April 1st, 1900.

To the Hon. Board of Trustees. Herkimer, N. Y.:

The recurrence of another April brings this our fifth annual report, which is presented in the usual pamphlet form.

The past year has been especially marked by the addition of a commercial lighting system. For this project the taxpayers generously voted the sum of \$13,000, for which $3\frac{1}{2}$ per cent. bonds were issued, payable at the rate of \$500 per annum, beginning in 1904. We have to admit as our report shows, that the amount appropriated did not suffice to build and equip the plant as it now stands. When our estimates were originally made we looked for not to exceed one thousand incandescent lamps as the probable instalment for the first six months or so. The policy we adopted of putting the rates at a moderate figure and making the service continuous, resulted in an entirely unlooked for amount of business, and, while fully justified, as we think, entailed additional expenditure for meters, transformers and wiring. However this discrepancy may be regarded, the investment is proving a good one for the community. There are now over thirty-three hundred incandecent lamps on the line, and our report shows a net profit for the first five months of \$900 after deducting, besides the running expenses, ten months' interest on the \$13,000, bonds and this too, with the first two months affording very light revenue, as compared with later ones. We calculate that, with good management, this incandescent plant will easily pay for itself within ten years. It is proposed to establish a sinking fund for this purpose, a thing never before attempted in the history of our village, we believe.

In a communication lately addressed through the press, we called attention to the fact that our street lighting system was out of date, unreliable and inadequate. With a desire to be candid with the public, we wish to further impress upon them the necessity which unquestionably exists for a considerable expenditure, not only to procure proper service, but to keep pace with the legitimate demands of our prosperous village. If Herkimer would only stop growing we could jog along comfortably in the old way, but with the perversity often accompanying a rugged constitution, our young giant insists upon reaching out and gathering in new streets for which lights must be provided. As the case now stands, it is absolutely impossible to add with safety a single lamp to the number now in use. We do not like to ask for further appropriations but a condition confronts us here which requires prompt dealing, and we should blame ourselves did we hesitate to notify the community of the fact.

FIFTH ANNUAL REPORT OF THE

This hearty young giant of ours is also calling for extension of water and sewer mains. Thus far we have been able to meet his demands without increasing the annual budget, and we hope the same plan can be continued with success for some time yet.

Herkimer needs to look ahead for a larger supply of water than seems now available from the ground at our disposal. We shall investigate this problem carefully and hope soon to present some scheme for increasing the supply before the situation becomes threatening or even embarrassing.

We cannot close without commending to the respectful consideration of our people the men, both salaried and day laborers, who are working in the various departments. We believe no more conscientious, intelligent and capable lot of men are in the employ of any of our private corporations than are now attending to the interests of the village. They are working for your appreciative regard, as well as for their salaries, and should have it.

Respectfully,

D. M. DEVENDORF,

W. P. MUNSON,

C. R. SNELL,

HENRY CHURCHILL.

Municipal Commission.

Report of Superintendent.

To the Honorable Municipal Commission of the Village of Herkimer :

I herewith submit my fifth annual report of the departments under my charge for the past year.

Water.

The water supply for the year has been ample for all demands upon it, with the single exception of one week in August, during the extended dry time, it was thought best to curtail lawn sprinkling.

This was done so that the reservoir or fire supply should not be encroached upon.

Again I want to try to impress upon our people the necessity of care in the use of water. There is no question but what Herkimer has an ample supply of this necessary article for all legitimate needs, but not sufficient for careless or unnecessary waste. To leave a faucet running to keep water cool in summer or from freezing in winter is not only wasteful but seems to me criminal negligence.

This water plant was put in when our village contained a population of something like three thousand ; to-day we are nearing six thousand, new streets are constantly being laid out, new water mains laid and extra fixtures are constantly being added to old permits.

Three courses are open:

1st. An additional water supply. Expense not easily estimated until source for same is located, but necessarily large as water would have to be brought a long distance.

2nd. A meter to every connection. This would cost something like fifteen thousand dollars.

3rd. The fair use by each consumer of all the water needed. Each to be a committee to see that no water is being wasted on his premises. Cost nothing.

The expediency of supplying street sprinklers from the fire hydrants is one I have always questioned. It is a source of danger in case of fire, as no fire hydrant was ever made for constant opening and closing, and is liable to get out of order by so doing, and an unnecessary waste of water suitable for domestic use.

This source of danger and waste could be avoided by the laying of an auxiliary pipe line direct from the pumping station. This line to be supplied by water from the condensor pumps, which water now comes from and goes to the creek. Of course some expense would necessarily be attached to this, but it would be small in comparison to an increased supply.

Again, with this increased growth, the smaller of our pumps has not sufficient capacity for the work required of it.

After giving this matter a good deal of thought, I am satisfied that the most economical thing to do would be to purchase a power pump and belt direct to the line shaft supplying our lighting system. In the summer, which of course is our dry time, very little power is required for incandescent lights after 10 P. M., although to keep the streets lighted it is necessary to run the 18x42 Corlis engine all night. Should a pump be connected as spoken of above this surplus power could be used to great advantage and with a good deal of economy.

Receipts.

The net profit on the water system for the past year was three thousand two hundred thirty-five dollars and sixty-seven cents.

This after paying all maintenance expenses and interest on outstanding bonds. No charge is made in the above for hydrant rentals or water used for fire purposes.

This amount does not include the money used for extensions.

Arc Lights.

One arc lamp was placed on German street near the residence of W. W. Barse.

The full capacity of our dynamos has been reached and no more lamps can be added with any degree of safety.

New arc machinery is not only needed but is an actual necessity.

Incandescent Light System.

This department is new with us and has exceeded both in adoption by the public and financial returns, our greatest expectations.

Sewer.

There are now five hundred and forty-five connections with the public sewers.

Police.

This department has maintained its old time efficiency. It would be safe to say there is no village of the size of Herkimer anywhere having a more efficient department than Herkimer has. Earnings of this department for the past year was seven hundred forty-one dollars and eighty cents.

Fire.

This department is one of which every citizen has reason to feel proud. Five hundred feet of new hose should be purchased this year as some of that now in use has been with the department for twelve years and is becoming badly worn. The companies were called out eleven times during the year.

Yours,

E. W. SLUYTER,

Clerk and Superintendent.

Balance Sheet.

Assets.

WATER SYSTEM.

Cost, per report April 1, 1899	-	-	-	\$73,829 93	
Added since—Schedule A	-	-	-	1,072 10	\$74,902 03

ARC LIGHT SYSTEM.

Cost, per report April 1, 1899	-	-	-	18,608 81	
Added—Schedule B	-	-	-	226 94	18,835 75

SEWER SYSTEM.

Cost, per report April 1, 1899	-	-	-	57,979 63	
Added since—Schedule C	-	-	-	360 96	58,340 59

FIRE SYSTEM.

Cost, per report April 1, 1899	-	-	-	-	4,469 78
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INCANDESCENT SYSTEM.

Cost, Incandescent system, to date	-	-	-	929 75	
Added—Schedule D	-	-	-	16,818 39	17,748 14

SUNDRY INVENTORIES.

Light maintenance, Schedule E,	-	-	-	474 43	
Water " " F,	-	-	-	394 89	
Sewer " " G,	-	-	-	117 50	
Police " " H,	-	-	-	118 00	
Fire " " I,	-	-	-	3,103 90	
General expense account, Schedule J,	-	-	-	179 50	4,388 22

OUTSTANDING ACCOUNTS.

Due from Town of Herkimer	-	-	-	133 60	
" " Village of Herkimer, sprinkling	-	-	-	340 00	
" " F. A. Gray	-	-	-	10 10	
" " E. W. Sluyter, Secretary	-	-	-	12 38	
" " David Cronin	-	-	-	15 09	511 17

\$179,195 68

Treasurer's Statement.

CASH RECEIPTS.

Balance on hand with treasurer's last report	-	-	-	-	-	-	-	-	\$	8	33
" " " " superintendent	-	-	-	-	-	-	-	-		9	65
Water maintenance	-	-	-	-	-	-	-	-		8,939	98
Arc light	-	-	-	-	-	-	-	-		55	00
Incandescent light	-	-	-	-	-	-	-	-		2,280	05
Police maintenance											
Sundry	-	-	-	-	-	-	-	-		4	10
Town of Herkimer	-	-	-	-	-	-	-	-		440	05
County	-	-	-	-	-	-	-	-		181	83
F. A. Gray	-	-	-	-	-	-	-	-		156	70
											782 68
Sewer maintenance sale of material	-	-	-	-	-	-	-	-		25	60
Fire " " old iron	-	-	-	-	-	-	-	-		28	63
Incandescent system sale of material	-	-	-	-	-	-	-	-		18	00
Soft coal, sale of	-	-	-	-	-	-	-	-		64	69
Corporation of Herkimer	-	-	-	-	-	-	-	-		5,637	00
Bonds and premiums	-	-	-	-	-	-	-	-		13,297	91
Bills payable	-	-	-	-	-	-	-	-		1,250	00
Over draft at bank	-	-	-	-	-	-	-	-		804	62
									\$	33,202	14

CASH DISBURSEMENTS.

Arc light maintenance	-	-	-	-	-	-	-	-	\$	3,223	78
Water	-	-	-	-	-	-	-	-		2,420	63
Sewer	-	-	-	-	-	-	-	-		362	70
Incandescent lights maintenance	-	-	-	-	-	-	-	-		423	52
Police	-	-	-	-	-	-	-	-		2,819	01
Fire	-	-	-	-	-	-	-	-		1,221	93
Incandescent system	-	-	-	-	-	-	-	-		16,837	47
Water	-	-	-	-	-	-	-	-		438	67
Sewer	-	-	-	-	-	-	-	-		409	76
Arc light	-	-	-	-	-	-	-	-		367	38
Water	-	-	-	-	-	-	-	-		133	62
Soft coal	-	-	-	-	-	-	-	-		2,718	16
General expense	-	-	-	-	-	-	-	-		1,168	24
Building bank	-	-	-	-	-	-	-	-		644	89
Balance with supt.	-	-	-	-	-	-	-	-		12	38
									\$	33,202	14

Street Light Maintenance Account.

OPERATING COST FOR 12 MONTHS, APRIL 1, 1899, TO APRIL 1, 1900.

There are now 72 lamps in the circuit, besides the one in the opera house and one in front of the Edick House.

Superintendent	- - - - -	\$ 200 00
Treasurer,	- - - - -	15 83
Labor, Charles Munson	- - - - - \$ 695 00	
“ Martin Manion	- - - - - 107 80	
“ W. W. Reynolds	- - - - - 720 00	
“ E. Smith,	- - - - - 100 50	
Sundry labor,	- - - - - 42 00	1,665 30
<hr/>		
Coal	- - - - -	1,017 83
Carbons	- - - - -	305 15
Repairs to lamps and line	- - - - - 344 44	
“ engine and foundation	- - - - - 111 97	
“ dynamos	- - - - - 212 75	
“ station and boiler	- - - - - 275 30	944 46
<hr/>		
Janitor	- - - - -	5 41
Oil, waste and packing	- - - - -	114 24
Insurance, fire and boiler	- - - - -	24 88
Office rent and fuel	- - - - -	36 84
Postage	- - - - -	7 91
Printing	- - - - -	1 16
Miscellaneous	- - - - -	27 41
Office furniture	- - - - -	3 43
Globes	- - - - -	15 41
<hr/>		
Total	- - - - -	\$4,385 26
Less received from series arc lamps—deducted because we do not count these lamps in figuring cost per arc light	-	55 00
<hr/>		
Actual operating expenses	- - - - -	4,330 26
Interest on outstanding bonds for 12 months	- - - - -	560 00
<hr/>		
Total	- - - - -	\$4,890 26

We formulate as a matter of general interest three propositions:

First proposition—Actual operating expenses

72 lamps	-	-	-	-	-	-	-	-	-	\$4,330 26, or per lamp \$60 14
----------	---	---	---	---	---	---	---	---	---	---------------------------------

Second proposition—Actual operating expenses

70 lamps	-	-	-	-	-	-	-	-	-	4,330 26
----------	---	---	---	---	---	---	---	---	---	----------

Add one year's interest on bonds	-	-	-	-	-	-	-	-	-	560 00
----------------------------------	---	---	---	---	---	---	---	---	---	--------

\$4,890 26, or per lamp 67 92

Third proposition --Operating expenses and in-

terest for 70 lamps	-	-	-	-	-	-	-	-	-	4,890 26
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Add 5 per cent. depreciation on plant	-	-	-	-	-	-	-	-	-	930 44
---------------------------------------	---	---	---	---	---	---	---	---	---	--------

Operating expenses, interest and depreciation \$5,820 70, or per lamp 80 84

In comparing municipal plants with those of private ownership it is usual to estimate the amount of annual taxes which the latter are required to pay. If we make this addition it will increase the last amount by \$1.50, or a total of \$82.34.

Actual hours light furnished, 12 months, 3,312.15.

Candle power per hour furnished for one cent:

First proposition as above	-	-	-	-	-	-	-	-	-	1,101
----------------------------	---	---	---	---	---	---	---	---	---	-------

Second " "	-	-	-	-	-	-	-	-	-	976
------------	---	---	---	---	---	---	---	---	---	-----

Third " "	-	-	-	-	-	-	-	-	-	819
-----------	---	---	---	---	---	---	---	---	---	-----

Cost per lamp per hour:

First proposition, cents	-	-	-	-	-	-	-	-	-	1 71-100
--------------------------	---	---	---	---	---	---	---	---	---	----------

Second " "	-	-	-	-	-	-	-	-	-	2 05-100
------------	---	---	---	---	---	---	---	---	---	----------

Third " "	-	-	-	-	-	-	-	-	-	2 42-100
-----------	---	---	---	---	---	---	---	---	---	----------

Pounds of coal consumed, 12 months	-	-	-	-	-	-	-	-	-	940,000
------------------------------------	---	---	---	---	---	---	---	---	---	---------

Number of miles streets lighted	-	-	-	-	-	-	-	-	-	13
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Plant consists of:

One 6x16 horizontal boiler and one 6½x18, with necessary pumps and fixtures used in connection with water system.

One 100-H. P. Ball tandem compound engine.

Two Edison 50-light arc dynamos.

Necessary switch board, lightning arresters, etc.

Thirty-one T. & H. double carbon lamps.

Nineteen Edison single carbon lamps.

Twenty daylight single carbon lamps.

Two hundred and ninety poles.

Twenty mast arms.

Incandescent or Commercial Light Maintenance.

Express	-	-	-	-	-	-	-	-	-	-	-	11 92
Joe Lee	-	-	-	-	-	-	-	-	-	-	-	190 00
M. Manion	-	-	-	-	-	-	-	-	-	-	-	32 75
Oil, etc.	-	-	-	-	-	-	-	-	-	-	-	29 30
Repair to line	-	-	-	-	-	-	-	-	-	-	-	43 36
" " belts	-	-	-	-	-	-	-	-	-	-	-	35 86
" " generators	-	-	-	-	-	-	-	-	-	-	-	7 78
" " boilers	-	-	-	-	-	-	-	-	-	-	-	15 29
Insurance	-	-	-	-	-	-	-	-	-	-	-	33 33
Coal	-	-	-	-	-	-	-	-	-	-	-	469 95
Interest on bonds	-	-	-	-	-	-	-	-	-	-	-	379 18
												\$ 1,248 72

RECEIPTS.

Sundry accounts	-	-	-	-	-	-	-	-	-	-	-	\$ 2,226 44
												\$ 977 72

Water Maintenance Report.

FOR TWELVE MONTHS.

Superintendent's salary	- - - - -	\$ 300 00
Treasurer's salary	- - - - -	23 75
Labor, Martin Manion	- - - - - 116 25	
" William Crego	- - - - - 565 00	
" Geo. Lewis	- - - - - 237 00	
Sundry labor	- - - - - 242 57	
	<hr/>	\$ 1,160 82
Hardware and general expense	- - - - -	53 74
Oil, packing and waste	- - - - -	183 40
Repairs, pipe line	- - - - - 349 85	
Pumps and boilers	- - - - - 176 02	
	<hr/>	525 87
Coal	- - - - -	1,463 76
Books and stationery	- - - - -	59 12
Postage	- - - - -	33 00
Office rent and fuel	- - - - -	45 36
Insurance	- - - - -	32 63
Meters	- - - - -	53 00
Janitor	- - - - -	8 12
Miscellaneous	- - - - -	17 95
Office furniture	- - - - -	5 15
Repairs to building	- - - - -	247 20
Hydraulic bridge	- - - - -	137 64
	<hr/>	
Total operating expenses	- - - - -	\$ 4,350 51
Interest on outstanding bonds, 12 months	- - - - -	1,995 00
	<hr/>	
Total	- - - - -	\$6,345 51

RECEIPTS—CREDITED.

From water rents, cash	- - - - -	\$ 8,939 98
" " " amount turned	- - - - -	35 02
Charged sewer maintenance	- - - - -	256 18
" fire "	- - - - -	10 00
Village for water for sprinkling	- - - - -	340 00
	<hr/>	\$ 9,581 18
	<hr/>	
Balance profit	- - - - -	\$ 3,235 67

Pounds coal consumed	- - - - -	1,343,000
“ “ per 1,000 gallons of water	- - 6 76 100	
Total gallons of water pumped	- - 199,290,420	
Less 20 per cent. for wastage between pump and consumer	- - - - -	39,958,084
Net	- - - - -	159,732,020
Hours actually pumped	- - - - -	3,990
First proposition—Actual operating expense	- - - - -	4,350 51
Second proposition—With interest on bonds added	- - - - -	6,345 51
Third proposition—Interest and five per cent. depreciation	- - - - -	9,956 61
Cost 1,000 gallons water, first proposition, in cents	- - - - -	2 18-100
“ “ “ “ second “ “ - - - - -	- - - - -	3 17-100
“ “ “ “ third “ “ - - - - -	- - - - -	6 12-100

System consists of :

One Knowles compound duplex pump, 11x18½x12x12.

“ “ “ “ “ 12x18½x10x12.

Two Knowles vacum pumps.

One Knowles feed water pump.

One horizontal tubular boiler, 6x16, with necessary fixtures used in connection with light system, and one 6½x18 boiler.

Eight-inch pipe	- - - - -	8,320 feet
Six-inch pipe	- - - - -	11,551 feet
Four-inch pipe	- - - - -	29,774 feet
Three-inch pipe	- - - - -	400 feet
One and one-half inch pipe	- - - - -	528 feet

Total pipe in streets	- - - - -	50,223 feet
Eight-inch valves	- - - - -	10
Six-inch valves	- - - - -	15
Four-inch valves	- - - - -	47
Total valves	- - - - -	72

Figures Showing Per Capita Consumption, Receipts per 1,000 Gallons, etc.

No. of net gallons delivered as above	- - - - -	159,332,020
Less used by sewer system	- - - - -	2,518,360
Total gallons consumed	- - - - -	156,813,660
Estimating the population at 5,000 equals 86 gallons per day per capita.		
No. of taps	- - - - -	981
Gallons average per tap for 12 months	- - - - -	159,851
“ “ “ per day	- - - - -	438

Meters in use	- - - - -	27
Gallons of water metered from Jan. 1, '99 to Jan 1, 1900	- -	9,124,200
Received for same	- - - - -	\$ 942 60
Average receipts per 1,000 gallons metered water in cents	-	10 32-100
Gallons of unmetered water for 12 months	- - -	147,789,460
Receipts for same	- - - - -	\$8,638 58
Average receipts for 1,000 gallons unmetered water in cents		5 84-100

Hydrants belong to the system as follows:

1. North side of German street, opposite Main.
2. Main, near residence of B. Patrick.
3. Main, opposite Court street.
4. Corner Main and Mary.
5. Main, opposite the Herkimer bank.
6. Corner Main and Park avenue.
7. Corner Main and Albany streets.
8. Main, opposite Mohawk street.
9. Main street, opposite George.
10. Corner Main and Smith streets.
11. Corner Washington and Steele streets.
12. Corner Washington and Smith streets.
13. Corner Washington and Perry streets.
14. Washington street, near Root's store.
15. Corner Washington and Albany.
16. Corner Washington and Green.
17. Washington, opposite Mary.
18. Corner Washington and Court.
19. Corner German and Prospect.
20. Corner German and Washington.
21. Corner Prospect and Church.
22. Prospect street, opposite Quackenbush's shop.
23. North side of Albany, on Prospect.
24. Mohawk street, near residence of E. Reardon.
25. Mohawk street, near Park House.
26. Second avenue, at north end.
27. First Avenue, at north end.
28. Bellinger street, south of New York Central railroad.
29. Corner Bellinger avenue and Bellinger street.
30. Corner Bellinger and Church streets.
31. Corner Bellinger and German streets.
32. German street, near H. H. Bellinger's residence.
33. German street, opposite Horrocks Desk Co.
34. Corner German street and Dorf lane.
35. Dorf lane, near paper mill.
36. Dorf lane, at paper mill.
37. Steuben road, near Willam Smith's late residence.

38. Corner German street and Westlake avenue.
39. Corner German and Lake streets.
40. Lake street, opposite Orin Cole's residence.
41. Albany street, west side hydraulic canal.
42. Albany street, opposite King street.
43. Corner Eastern avenue and King street.
44. Eastern avenue, near east end.
45. Smith avenue, near S. McLean's residence.
46. Eureka avenue, near center of avenue.
47. Corner Smith and King streets.
48. Corner Smith and Dewey avenue.
49. Corner George and William streets.
50. Corner Smith and Bellinger streets.
51. Eastern avenue, opposite Standard Furniture Company.
52. Westlake avenue.
53. German street, near J. G. Bellinger's residence.
54. Church street, near Graham Bellinger's residence.
55. Church street, near H. H. Batchelder's residence.
56. Caroline street, north of Church street.
57. Deimel street, north side.
58. Corner King and Perry streets.
59. Corner King and Steele streets.
60. Steele street, between Washington and King streets.
61. Stinson street, east end.
62. Corner Folts and Doxtater streets.
63. Corner Folts and Steuben streets.
64. Corner Folts and Harter streets.
65. Corner Harter and Green streets.
66. Bellinger avenue extension.
67. Bellinger street, opposite John Thompson's residence.
68. South William street, opposite M. Purpura's residence.
69. Green street, near Hydraulic bridge.

Private hydrants as follows :

- Standard Furniture Company, 1.
- C. R. Snell's lumber yard, 1.
- Morris Mark's mill, 3.
- H. M. Quackenbush's shop, 1.

[illegible]

Police Maintenance Account.

Superintendent's salary	-	-	-	-	-	-	-	-	-	\$	100	00
Treasurer's salary, 12 months	-	-	-	-	-	-	-	-	-		7	92
Police salaries	J. T. Manion, chief	-	-	-	-	-	-	-	-	\$720	00	
"	"	W. F. Perry	-	-	-	-	-	-	-	598	00	
"	"	C. H. Miller	-	-	-	-	-	-	-	600	00	
"	"	Specials	-	-	-	-	-	-	-	94	12	
											<hr/>	\$2,012 12
F. A. Gray	-	-	-	-	-	-	-	-	-		500	00
Uniforms	-	-	-	-	-	-	-	-	-		51	75
Rent police headquarters	-	-	-	-	-	-	-	-	-		50	00
Fuel	"	"	-	-	-	-	-	-	-		15	75
Police expenses	-	-	-	-	-	-	-	-	-		104	07
Furniture	-	-	-	-	-	-	-	-	-		14	72
Stationery and printing	-	-	-	-	-	-	-	-	-		23	47
Office rent and fuel, municipal office	-	-	-	-	-	-	-	-	-		15	12
Postage	-	-	-	-	-	-	-	-	-		3	95
Janitor	-	-	-	-	-	-	-	-	-		6	30
Bicycle depreciation	-	-	-	-	-	-	-	-	-		5	00
Telephone	-	-	-	-	-	-	-	-	-		17	29
Miscellaneous	-	-	-	-	-	-	-	-	-		3	30
Gas	-	-	-	-	-	-	-	-	-		18	65
											<hr/>	\$2,949 41

EARNINGS.

By F. A. Gray	-	-	-	-	-	-	-	-	-	\$156	70	
By town of Herkimer	-	-	-	-	-	-	-	-	-	399	10	
By county of Herkimer	-	-	-	-	-	-	-	-	-	185	28	
Total earnings	-	-	-	-	-	-	-	-	-	<hr/>	741	08
Net operating cost	-	-	-	-	-	-	-	-	-		<hr/>	\$2,208 33

Fire Maintenance Account.

Superintendent's salary	- - - - -	\$ 100 00
Treasurer's Salary, 12 months	- - - - -	7 92
Handling carts and trucks at fires	- - - - -	41 90
General expense and repairs to fire alarm and supplies for batteries	- - - - -	55 19
Albert Ertman, chief 12 months	- - - - -	100 00
Rents for companies and hose carts	- - - - -	305 00
Repairs to engine house	- - - - -	252 01
Cleaning hose	- - - - -	27 78
Hose and depreciation	- - - - -	59 50
Fuel furnished companies	- - - - -	38 20
Stationery	- - - - -	58
Office rent and fuel, Municipal Commission	- - - - -	15 12
Depreciation on uniforms and new	- - - - -	210 00
Miscellaneous depreciation on sundries and fire engine and hook and ladder truck	- - - - -	51 75
Miscellaneous expense	- - - - -	30 01
Water in exchange for use of bell M. E. church	- - - - -	10 00
Watchman fire alarm boxes	- - - - -	4 00
Postage	- - - - -	3 96
Janitor	- - - - -	2 71
Total cost maintenance	- - - - -	<u>\$ 1,315 63</u>

RECEIPTS.

Sale of hose	- - - - -	\$ 11 25
Sale old iron	- - - - -	17 38
		<u>28 63</u>
Net operating cost	- - - - -	\$ 1,287 00

Schedules.

Schedule A.

CHARGES TO WATER SYSTEM.

350 feet 4 inch cast iron pipe, Green street, 1 4 inch valve and 1	
hydrant - - - - -	\$ 194 59
Labor on above - - - - -	71 89
Corporation cocks and tapping mains - - - - -	112 91
Building bank along creek - - - - -	692 71
	<hr/>
	\$ 1,072 10

Schedule B.

ADDITIONS ARC LIGHT SYSTEM.

Building - - - - -	\$ 82 58
Poles - - - - -	12 00
Labor - - - - -	42 60
Wire - - - - -	89 76
	<hr/>
	\$ 226 94

Schedule C.

ADDITIONS TO SEWER SYSTEM.

1050 ft. 8 in. pipe, manhole and catch basin So. Main and Steele St. \$360 96

Schedule D.

INCANDESCENT LIGHT SYSTEM.

Telephone and Telegraph - - - - -	\$ 6 70
Hardware - - - - -	48 29
Labor on Building and Foundations - - - - -	983 77
Carpenter Work - - - - -	84 03
Work on Plans - - - - -	7 52
Sand, Stone, Brick and Cement - - - - -	639 36
Pipe, Heater, Belts, Etc. - - - - -	1,487 10
Poles, Line and Wires - - - - -	2,696 67
Engines and Shafting - - - - -	3,845 00
Generators, Exciters and Switch Board - - - - -	3,750 00
Meters and Transformers - - - - -	3,268 95
Clutch - - - - -	55 00
	<hr/>
	\$16,872 39

Schedule E.

ARC LIGHT MAINTENANCE, INVENTORY MATERIAL, ETC., ON HAND.

1000 carbons - - -	\$ 12 50	1 stove - - -	4 00
4 pairs magnets - - -	7 00	1 cupboard - - -	2 00
1 pole yoke and pike - - -	1 00	Copper wire - - -	20 00
100 glass insulators - - -	3 50	1 series lamp - - -	1 00
2 pair climbers - - -	3 00	2 pair linemen's gloves - - -	1 00
2 pole Y - - -	2 00	25 30-foot poles - - -	50 00
1 volt meter - - -	25 00	2 magneto bells - - -	8 00
2 ladders - - -	3 00	2 plumber's furnaces - - -	7 00
3 steel bars - - -	3 00	Braces and tools - - -	10 00
Cable - - -	5 00	4 canal barrows - - -	4 00
6 arc lamps - - -	70 00	10 gal. dynamo oil - - -	4 00
2 tree trimmers - - -	3 50	1 gasoline furnace - - -	3 50
2 set pulley blocks and rope - - -	3 00	2 arc amphere meters - - -	20 00
1 engine ring - - -	2 00	1 pulley - - -	10 00
1 vice - - -	1 00	Insurance - - -	46 58
2 arc cut outs - - -	5 00		
Lamp repairs - - -	25 00		\$ 383 58
18 globes - - -	18 00		

Schedule F.

WATER MAINTENANCE, INVENTORY MATERIAL, ETC., ON HAND.

2 meters, ½ inch - - -	\$ 26 00	1 reducer 8x4 - - -	1 75
Picks and shovels - - -	2 00	2 hydrant extensions - - -	4 00
Hydrant seats - - -	5 00	4 gate valves - - -	15 00
1 steam pump - - -	20 00	1 reducer 8x6 - - -	2 00
Pipe and fittings - - -	5 00	1 Y 8x8 - - -	10 00
Valve springs - - -	10 00	1 Y 8x4 - - -	5 00
3 valve wrenches - - -	3 00	23 feet 8-inch pipe - - -	18 00
1 water gauge - - -	7 00	Calking tools - - -	3 00
36 feet 4-inch C. I. pipe - - -	12 00	1 C. I. pipe cutter - - -	10 00
12 " 6-inch " - - -	6 00	1 feed water heater - - -	10 00
1 6-inch C. I. ell - - -	2 00	Insurance - - -	38 29
4 8-inch sleeves - - -	10 00	1 tapping machine - - -	50 00
1 6-inch sleeve - - -	1 25	¾ set expansion studs & plates - - -	15 00
2 4-inch sleeves - - -	2 00	Pump valves - - -	5 00
5 plugs, 8-inch - - -	3 00		
2 " 6-inch - - -	75		\$ 304 04
1 increaser 6x8 - - -	2 00		

FIFTH ANNUAL REPORT OF THE

Schedule G.

SEWER MAINTENANCE, INVENTORY MATERIAL, ETC., ON HAND.

1 ½ ton coal	-	-	-	\$ 4 50	25 Y's 12-inch	-	-	20 00
1 wrench	-	-	-	40	20 Y's 8-inch	-	-	6 00
1 quantity wood	-	-	-	1 00	1 increaser 8x10	-	-	50
Fire tools	-	-	-	35	Man-hole gaskets	-	-	1 00
1 reducer 8x10	-	-	-	35	1 catch basin	-	-	10 00
2 bends 20 inch	-	-	-	2 00	1 man-hole cover	-	-	6 00
3 tees 12x12	-	-	-	1 80	Insurance	-	-	8 60
2 tees 10x20	-	-	-	3 00				
100 feet 20-inch pipe	-			40 00				\$ 117 50
30 feet 18-inch pipe	-	-	-	12 00				

Schedule H.

POLICE MAINTENANCE, INVENTORY MATERIAL, ETC., ON HAND.

3 helmets	-	-	-	\$ 1 50	1 doz. police clubs	-	-	1 00
2 call whistles	-	-	-	50	3 desks	-	-	20 00
3 chairs	-	-	-	2 50	1 stove	-	-	10 00
1 bicycle	-	-	-	10 00	3 police uniforms	-	-	10 00
9 badges	-	-	-	5 00	2 overcoats	-	-	40 00
3 pair handcuffs	-	-	-	4 50	1 " "	-	-	10 00
1 " nippers	-	-	-	1 00				
4 twisters	-	-	-	2 00				\$ 118 00

Schedule I.

FIRE MAINTENANCE, INVENTORY MATERIAL, ETC., ON HAND.

30 hose washers	-		\$ 1 50	1 hand truck	-	-	2 50
1 fire engine	-	-	1,000 00	7 nozzles	-	-	40 00
1 hook and ladder truck			360 00	1 spray nozzle	-	-	15 00
1,700 feet old hose	-	-	340 00	1 back pressure valve	-	-	25 00
500 feet new hose	-		180 00	25 hose wrenches	-	-	10 00
4 set hose coupling and rings			4 00	3 hose Y's	-	-	1 00
7 hydrant wrenches	-	-	5 00	Blue vitrol	-	-	25 00
3 hose carts	-	-	35 00	30 working suits	-	-	200 00
1 hose cart	-	-	50 00	25 parade suits	-	-	380 00
2 stoves	-	-	18 00	30 parade uniforms	-	-	360 00
3 Cooper hose jackets	-		40 00	Insurance	-	-	6 40
Chemicals	-	-	3 00				
1 hose sleigh	-	-	2 50				\$3,103 90

Schedule J.

GENERAL EXPENSE ACCOUNT.

2 desks - - - -	\$ 14 00	3 chairs - - - -	9 00
Building - - - -	88 00	Books and stationery - -	12 00
Plumbing - - - -	44 00		
1 waste basket - - - -	50		
Stove and fittings - - - -	12 00		
			<hr/>
			\$ 179 50

Schedule K.

LIGHT AND WATER.

1 pair telephones - - - -	\$ 15 00	2 wrenches - - - -	1 50
15 lbs. gasket packing - - - -	8 25	4 lanterns - - - -	1 20
1 oil pump - - - -	75	80 feet fire hose - - - -	15 00
10 lbs. ring packing - - - -	5 00	Oil - - - -	12 50
1 table - - - -	1 50	40 feet 1/2-inch hose - - - -	1 50
2 one-barrel oil cans - - - -	7 00	Chains - - - -	4 00
6 pipe wrenches - - - -	6 00	3 steel bars - - - -	3 00
1 pair chain tongs - - - -	4 00	80 feet pipe - - - -	8 00
1 vice - - - -	6 00	100 " 1 1/4 in. fire hose, nozzle	12 00
1 8-day clock - - - -	2 50	Hand and man-hole gaskets - -	4 00
Fire tools - - - -	5 00	1 jack screw - - - -	2 00
Hoisting tackle - - - -	5 00	1 platform scale - - - -	10 00
2 scoops - - - -	2 00	8 Scotch glass tubes - - - -	1 20
1 steel barrow - - - -	8 00	4 pkgs. gold dust - - - -	80
3 flue cleaners - - - -	13 50	1 flat top desk - - - -	8 00
Pipe-cutting tools - - - -	3 50		<hr/>
1 lawn mower - - - -	4 00		\$ 181 70

Rules and Regulations for Use of Water.

I. *Applications for Water.*—All applications for the introduction or supply of water to any premises, or for the extension of any pipe for the conveyance of such water, must be made in writing on the books of the Commission, and if the applicant is not the owner of the premises, the written consent of the owner must accompany the application.

When more than one building, or one tenant, is supplied through one service pipe, the application for the supply of such buildings, or tenants, shall be made by one person, and said person shall be held responsible for all supplies through said service pipes.

II. *No Permits.*—No permits will be granted for baths, water closets or wash basins, when it is not also taken for household or office purposes.

III. *Plumbing.*—The introduction of service pipe for the supply of premises with water, and all plumbing of every description, for the use or distribution thereof, must be done by plumbers licensed by the Commission and who shall be under bonds to the Commission for the faithful performance of their work, in accordance with the Rules and Regulations of the Commission.

Penalty.—For any violation of this rule a penalty of ten dollars will be incurred, and the use of water will not be allowed on the premises until the same is settled.

IV. *Applications for Additions and Alterations.*—No additions or alterations whatever, in or about public or private pipes, shall be made by any person until the application therefor has been made on the books of the Commission, and a written permit given by the Superintendent or Secretary.

Penalty.—For any violation of this rule a penalty of ten dollars will be incurred, and the flow of water will be stopped until the same is settled.

V. *Commission Not to Connect.*—The plumbing on the premises to be supplied with water must be completed before any connection with the mains shall be made; and the Commission reserves the right to decline to connect the plumbing not in accordance with the Commission's Rules and Regulations.

VI. *Openings and Work in Streets.*—The streets must be opened and the paving stones and earth deposited in a manner that will occasion the least inconvenience to the public and provide for the passage of water along the gutters; the paving and flagging must be restored as quickly as possible to as good condition as previous to the excavation, and all work in the streets in making service connections and repairs, must be at the sole risk and responsibility of the person having the same done, or the plumber doing the same.

VII. *Owner or Tenant Must Not Supply Other Persons. Must Have Independent Service, Except by Permission.* *Where Two or More are Supplied by One Service.*—No owner or tenant of any premises supplied with water by the works will be allowed to supply water to other persons or families; if found so doing the supply will be stopped and the amount paid forfeited; and except where special permission is granted by the Commission, each consumer must be supplied by independent service pipe from the main. In case two or more parties are supplied with water from the same

service, if either of the said parties fail to pay the water rates when due, or to comply with any rule of the Commission, the Commission may turn off the water from such pipe until the rent is paid and the rule strictly complied with.

VIII. *Service Pipe and Fixtures Subject to Approval of Commission Service Cock.*—All lateral or service pipes, for public or private use, and all necessary fixtures connected therewith, shall be subject to the approval and laid under the supervision of the Superintendent ; said pipes, etc., should be protected from the frost by and at the expense of the applicant. All connections with the street mains will be made by the Commission, and there shall be a suitable stop-cock, with well and cover, as prescribed and provided by the Commission, for which the applicant must pay the Commission at the time of making such application. Such connection will be regarded as a part of the main pipe, and will belong to the Commission ; also in all cases, a stop cock with well and cover, shall be put in at the curb, or outer edge of the walk, and another, with waste, inside of cellar wall

IX. *Use for Protection* —The Commission has the right to use any of the service cocks when necessary for its own protection.

X. *Turning on Water.* —No plumber or consumer shall turn on water to any premises, whether old or new supply.

XI. *Notice when Connection to be Made or Water Turned Off.*—Notice must be left at the office of the Commission the day before any service is to be put in, stating the street and number of the location and the name of the person owning or occupying the premises, and the exact time when the trench will be ready for making the connection ; and a like notice must be left when the water is to be turned on to any premises.

XII. *Street and Lawn Sprinklers.*—The season for the use of water for street or lawn sprinklers, or yard fountains, begins May 1st and expires on November 1st.

No abatement in the regular charge will be made for any fractional part of the term.

The use of hand hose for street sprinkling will not be allowed between the hours of 9 A. M. and 4 P. M.

All hose attachments, if used as sprinklers, will be charged in addition as sprinklers, and subject to the rules regarding sprinklers.

Street sprinklers or washers, must not be used to sprinkle beyond the center of the street, or the limits of the premises of those paying for them ; or for filling cisterns, or converted into jets, or to be used for washing down the collections of the gutters upon neighboring premises, or used to flood the streets, but merely to sprinkle them, and must not be permitted to run except when in actual use ; and it is expressly understood that the water paid for as street or lawn sprinklers, cannot be used for any other purpose, except in case of fire ; and parties so using it are liable to have the water turned off without notice.

XIII. *Waste Water.*—Taps at sinks, wash basins, water closets, bath, urinals, sprinklers, and for other uses, must be kept closed when not in actual use, and not be allowed to leak.

XIV. *Fountains.* No yard, fountain or jet, shall be used longer than six hours a day for six months in the year, without special arrangement ; and the application shall state at what hours it shall be used, and if found running at any other time the water will be shut off from the premises.

XV. *Inspection of Premises* —The Superintendent personally, and any person delegated by him for that purpose, must at all reasonable hours have free access to all parts of the premises where water is delivered for the purpose of inspection, examination of fixtures, etc., and all persons using water must, at all times, frankly, and without concealment, answer all questions put to them relating to its consumption.

XVI. *Vacating Premises. Transfer of Balance of Rates Paid.*—Consumers vacating their premises must give notice at the office of the Commission, that the water may be shut off; and they will be held responsible for the water rate until such notice is given. When there is a change of occupants the balance of a bill paid in advance may be transferred, on notice at the time, to other premises for the same uses, but no balance of a bill will be refunded.

XVII. *Leaks.*—When leaks occur in service pipes at any point beyond the main pipe, they must be immediately repaired by the owner or occupant; and if not repaired within a reasonable time, after notice, the water will be shut off until repaired.

XVIII. *Payment of Water Rates*—All water bills shall be paid on the first day of April and October, at the office of the Commission, in advance; street washers, fountain and yard sprinklers, payable for the season. All bills must be paid within thirty days from date of same, or water will be shut off without notice. When meters are used, the estimated amount shall be paid in advance, subject to meter measurement.

XIX. *Water Closets.*—None but self-closing water closets or urinals shall be used, which must be subject to the approval of the Superintendent.

XX. *Fraudulent Misrepresentations, Uses, Waste, Etc.*—In case of misrepresentation on the part of the applicant, or uses of water not embraced in the application, or of wilful or unreasonable waste of water or violation of any of the Rules and Regulations of the Commission, or non-payment of rates when due, in addition to the penalties hereinbefore imposed, the water will be cut off without notice, and the payments will be forfeited, and the water will not be turned on again unless upon satisfactory assurance that no further cause of complaint shall arise and the payment of such penalty as the Commission shall impose; and the sum of one dollar will be charged for turning on the water again.

XXI. *Check Valve.*—All house and other boilers shall be fitted with a suitable check valve to prevent accidents from collapse or damage in case the water is suddenly drawn off from the main pipes.

XXII. *Meters*—The Commission reserve the right to attach meters at any time whenever they shall deem it expedient, and charge for the quantity of water measured, or used, instead of the special rates. A reasonable charge will be made for the use of the meters.

XXIII. *Deficient Supply.*—The Commission reserves the right to shut off the water for alterations, extensions and repairs, and to stop and restrict the supply of water whenever it may be found necessary; and the Commission shall not be liable, under any circumstances, for the deficiency or failure in the supply of water, whether occasioned by shutting off the water to make repairs, or connections, or for any other cause whatever.

XXIV. *No Rebate for Partial Uses*—No rebate from rates will be allowed for partial use of water from wells, cisterns, etc.

All fixtures for the supply of water for which the Commission have regular rates must be paid for or disconnected from service pipe.

XXV. *Changing Rules and Rates.*—The Commission reserves the right to change the Rules and Regulations and the rates for the use of water from time to time, and to make special rates, or contracts, in all proper cases.

XXVI. *Right to Use Water as Agreed Only.*—The Commission agrees to furnish water on certain terms for certain specified uses, for a certain sum.

Therefore, the consumer will not be permitted to use it for any other purpose than that stated in the agreement.

Sewerage Ordinance.

SECTION I. The Board of Health and the Municipal Commission, or either of such Boards shall have power to stop and prevent the discharge of sewerage from any premises in the village of Herkimer into or upon any public highway, stream or water course or public place, or into any drain, cess-pool or private sewer, or to order a connection to be made with the public sewer, for the removal of sewage from any premises whenever in the opinion of either of such Boards the public interest demands it ; and any person who shall neglect or refuse to comply with the order of such Board within ten days from the service of such notice that any such order has been made, shall be guilty of a misdemeanor, and shall pay a fine of not less than \$10, nor more than \$50, upon conviction thereof.

SECTION II. It shall be a misdemeanor to do, or cause to be done, any of the following acts, except as hereinafter provided ; and any and all persons guilty thereof shall be liable upon conviction to pay a fine of not less than \$5, nor more than \$50, for each offense:

1. To uncover the public sewer for any purpose, or make connections therewith, or to uncover the public inspection or connection branches thereof, or to open any manhole, or flush tank, unless and except with the written consent and under the supervision of the Municipal Commission or its authorized agent.

To do or cause to be done any injury of any kind in any manner to the pumping station building, the engine and pumps or any connection therewith, or outlet pipe or any part of the apparatus, or any other of the appliances, connections, or parts of the public sewers.

2. To make or cause to be made any connection for the removal of sewerage from any premises with the storm water drain of the village or with any stream or water course within the limits of the village.

3. To make or cause to be made any connection with a house connection, or to connect any closet with a branch of the public sewer, except under a written license for the work signed by the Municipal Commission or its duly authorized agent.

4. To make or cause to be made any such connections, by any person than a mechanic, duly authorized to do such work by the Municipal Commission or the Board of Trustees of the village of Herkimer or to make any such connection in any manner other than as follows, to wit :

(a) Every pipe connecting with the sewer from a point five feet outside the foundation walls of the building proposed to be connected must be either of heavy cast iron or of salt glazed vitrified earthenware ; must be sound and impervious in all its parts ; must be proportionately laid on a true grade as nearly as possible in a straight line ; all changes in its direction must be made with properly curved pipe ; must be jointed in the best manner, and covered to a depth of at least one foot with well rammed fine earth, entirely free from stone and rubbish, within forty eight hours after the back filling of the trench is completed the paving or ballast must be replaced and the street left in the best condition to the satisfaction of the Municipal Commission, or its duly authorized agent, and in no case shall the public sewers be used by any private individual, until the connections therewith have been inspected and approved by the Municipal Commission or its duly authorized agent, and permission in writing for such use has been granted by the said Municipal Commission or its duly authorized agent.

(b) In all cases gaskets must be used to prevent cement or lead from running into the pipes.

(c) No drain connected with the sewer shall be laid with a less inclination or grade than one in sixty without the written permission of the Municipal Commission or its duly authorized agent.

(d) All drains connected with the public sewer shall be at least four inches in interior diameter. No earthenware pipe shall be laid less than two feet six inches deep. Pipes laid at less depth than the above shall be of heavy cast iron with well caulked lead joints.

(e) No person or corporation shall hereafter lay any pipe or conduit for any purpose whatsoever in any street within five feet on either side of the public sewer in such street without the permission of the Municipal Commission.

(f) No more than one building shall be connected with the public sewer through one drain without special permit signed by the Municipal Commission or the president thereof.

(g) In opening trenches on any street or public way the paving or ballast must be removed with care; the sides of the trench must be sheeted or braced when directed by the Municipal Commission or its agent, the earth thrown from the trenches must be placed so as to cause the least obstruction possible to public travel, gas and water pipes must be protected from injury and the trench enclosed and lighted at night, and every precaution necessary taken to prevent injury to persons and property, during the progress of the work as it shall be directed by the Municipal Commission or its duly authorized agent.

(h) Any settlement over a drain connecting with the public sewer occurring within ninety days after it has been laid shall be repaired at the expense of the owner of the property from which such drain has been laid.

(i) Notice must be left at the office of the Commission or its agent at least twenty-four hours before the beginning of any work upon a drain, and no material shall be used or work covered until inspected by the Commission or its duly authorized agent.

(j) Permits to make connections with the public sewers shall be issued only when the plumbing in the house or building to be connected is in accordance with the rules for plumbing hereinafter described.

SECTION III. Before any building can be connected with the public sewer the plumbing in such building shall be inspected by the Board of Municipal Commission or its duly authorized agent and approved by him and a certificate of such approval filed in the office of the Commission. Under no circumstances can any mechanic doing the work of plumbing or house drainage, or any employee of such mechanic, act as the agent of such Commission to perform the duties prescribed in this ordinance.

(a) All pipes from the sewer connections to the top of the soil pipes shall be fully three inches in diameter at every point.

(b) No trap or manner of obstruction to the free flow of air through the whole course of the drain and soil pipes will be allowed, and any mechanic or other person who shall directly or indirectly place, make, cause or allow to be placed or made any trap, obstruction, contraction or other obstacle anywhere in the course of such drain or soil pipes shall be liable to pay a fine of not less than \$5, nor more than \$40, for each and every offense, and, if a licensed plumber, shall be liable upon conviction of such offense, to forfeit his license and shall be ineligible to relicense for one year.

(c) Every connection of a water closet, sink, basin or other vessel connected with the soil pipe or drain must be separated from it by at least one trap properly arranged so as to prevent the passage of air or gas from the soil into the building. All details of plumbing work must be of a kind and quality to be approved by the said Commission or its duly authorized agent.

The discretion of said Commission or its agent in approving plans and accepting the work as above shall be limited only by the following requirements, viz:

1. No water closet shall be set up in any house or building in which its walls are not freely and fully washed by the normal discharge of the closet at each operation, nor shall any hopper closet be set up which has a trap of less than one and three-quarter inches seal.

2. Every trap constructed which is so situated as to be subject to siphonage by momentum or by suction shall be of a kind that can not have its water seal broken by siphonage or shall have an effective mechanical seal.

3. No cowl, return bend or cap shall be used at the top of any soil or vent pipe.

4. Every lateral branch extending more than fifteen feet from a ventilated soil or vent pipe with which it is connected shall be independently vented through the roof of the building up a pipe of its full diameter. There shall be no trap in the course of such branch or vent pipe, each fixture being independently connected with it and having its own trap.

5. No fixture shall be trapped by having its outlet connected with the trap of another fixture.

6. From a point five feet outside the foundation walls of a building no material may be used for soil, waste and vent pipes other than wrought iron or cast iron pipes with securely leaded joints or lead pipes with soldered or wiped joints. Cement or putty joint, tin or sheet iron pipes, whether galvanized or not, shall not be used.

7. No connections may be made at any point of the house drainage system with roof gutters or any other channel for the conveyance of rain-water without permission from the Municipal Commission or their agent except that plumbing fixtures may be supplied from tanks constructed to store rain or city water for such purpose.

8. All soil and water pipes shall be direct as possible and all parts of the work shall be so arranged that they may be at all times readily examined and repaired. Before the fixtures are placed in connection with the plumbing of any house or building and before said pipe is connected with the drain the outlet of the soil pipe and all opening into it shall be hermetically sealed, the pipes shall then be filled with water to its top, and every joint shall be carefully examined for leakage, and all leaks shall be securely closed before connections with the soil pipes are made, except in cases of inspection of plumbing already existing, the peppermint, ether or smoke test may be substituted by the Municipal Commission or its agent.

(d) The licensed mechanic employed to construct a house drain shall complete his work to the connection branch of the public sewer, but no connection shall be made with the public sewer except under the immediate supervision of the Municipal Commission or its agent, and only after it or he shall have personally inspected and accepted the house drain and its plumbing connections and been satisfied that all is strictly in accordance with the requirements of this ordinance, and the permission of the Commission for such connection shall have been duly issued.

(e) Application for license to do any work under this ordinance shall be made in writing to the Municipal Commission on proper blanks provided for that purpose. Every person, firm or corporation to whom a license is granted shall file a bond to be approved by the said Commission in the sum of \$500, conditioned to save harmless and indemnify the village of Herkimer from all damages arising from making connections with the public sewer, and no person, firm or corporation so licensed shall undertake any house drainage or plumbing work to be connected with the public sewers without first having received a special permit for such work in each case. Application for permits for house drainage and sewer connections must be made in

writing by the owner of the property or his agent, giving the name of the licensed mechanic who is to do the work and request that said mechanic be authoized therefor. Blanks for such application will be furnished.

SECTION IV. Any person who shall allow any surface water or rain water from the ground or roof of houses or buildings to enter any pipe or drain or any vessel or slop stone connected with any pipe or drain connected with the public sewers, or admit any drainage water from any cellar into such pipe or drain without obtaining permission therefor from the Municipal Commission or its agent, or any person violating any of the provisions of Section III of this ordinance shall be liable upon conviction to pay a fine of not less than \$5. nor more than \$50.

SECTION V. Any person who shall throw or deposit, or cause to be thrown or deposited, in any vessel or receptical connected with the public sewer any garbage, vegetable parings, ashes, cinders, rags, or other matter or things whatsoever, except faeces, urine, the necessary water closet paper and liquid house slops, or to allow any house drain to be connected with any private vault or cesspool or underground drain, or with any other channel conveying water or fifth, excepting the soil pipes and plumbing work of the house or building as hereinbefore provined, shall be liable upon conviction thereof to pay a fine of not more than \$50 for each offense.

SECTION VI. It is made the duty of the Municipal Commission to enforce full compliance with the ordinances in relation to the sewers and the connections therewith, and for that purpose they may appoint a suitable person to act as their agent, and any failure of duty on the part of said Commission or its agent shall subject the person in default to all the penalties of this ordinance

SECTION VII. This ordinance shall take effect and go into operation immediately.

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Sixth Annual Report

Herkimer

Municipal Commission

Herkimer, N. Y.

1901

SIXTH ANNUAL REPORT

OF THE

MUNICIPAL COMMISSION

OF

HERKIMER, N. Y.

APRIL 1, 1901.

BOARD OF COMMISSIONERS:

HENRY CHURCHILL, President.


E. W. SLUYTER, Clerk and Superintendent.

J. S. MATHEWS, Treasurer.

H. CHURCHILL,	Term expires March 31, 1902.
C. R. SNELL,	" " " " 1903.
W. P. MUNSON,	" " " " 1904.
CHAS. BELL,	" " " " 1905.



Citizen Publishing Company,
Printers,
Herkimer and Alton, N. Y.



Report of Commission.

HERKIMER, N. Y., April 1st, 1901.

To the Hon. Board of Trustees, Herkimer, N. Y:

We have never undertaken in reports heretofore published to bring out the advantages of municipal ownership by a comparison with other municipalities working under a different system. We take this opportunity to do so now, giving a few facts and figures which we think will prove interesting and be easily comprehended.

It has been customary for us, as you are aware, to ask the village trustees for a certain amount of money each year. It is the almost universal practice in other places to directly charge the corporation a certain fixed sum for street lights and hydrants. This the law distinctly permits in our case.

Let us see how this plan would have worked here during the last year. The statement would have been about as follows:

RECEIPTS.

From water rent	-	-	-	-	-	-	-	-	-	\$10,734 09
From incandescent lights	-	-	-	-	-	-	-	-	-	6,513 72
From 75 arc lights at \$100 each	-	-	-	-	-	-	-	-	-	7,500 00
From 70 hydrants at 40 each	-	-	-	-	-	-	-	-	-	2,800 00
Total Receipts	-	-	-	-	-	-	-	-	-	<u>\$27,547 81</u>

DISBURSEMENTS.

For water maintenance	-	-	-	-	-	\$4,456 46	
For incandescent light maintenance	-	-	-	-	-	2,662 76	
For arc light maintenance	-	-	-	-	-	4,178 23	\$11,297 45
Leaving balance in hands of the Commission							<u>\$16,250 36</u>
This would pay							
Police maintenance	-	-	-	-	-	\$2,180 42	
Sewer maintenance	-	-	-	-	-	691 01	
Fire maintenance	-	-	-	-	-	1,266 64	
Interest on all bonds	-	-	-	-	-	5,137 50	9,275 57
Leaving still a balance of	-	-	-	-	-		<u>\$ 6,974 79</u>

This shows that under the direct charging system, if the village should pay only what is generally considered a reasonable price for street lights and hydrants, a sum not more than they would be obliged to pay a private corporation, your commission would be able to maintain all departments, in-

cluding police, fire and sewer, all three of which are a direct charge upon the public in any event, besides paying interest on all bonded debt, and have still in their hands a sum sufficient, if no addition were made to systems, to wipe out the whole indebtedness of the corporation in about fifteen years. As it is, the village paid last year just about one-half the market price for lights and water, and yet at that we added \$5,500 to the plant and further reduced the indebtedness \$1,200.

It is understood, of course that these figures are presented only with the view of putting the matter in a different light from that in which the public has been accustomed to looking at our administration of affairs, and not to claim that the present method is wrong. It is obvious that any deficiency of operation falls upon the tax-payer always and ever.

Now for a few confirmatory statistics. These we have taken some pains to obtain and without prejudicial selection. First—In street lighting, both on a 2,000 candle power arc light, burning all night every night as is the case in Herkimer, and also on 1,200 candle power, we find the following amounts are paid by:

Albany, N. Y., annually per lamp, 2,000 candle power	-	-	\$	121	80
Troy, " " " 2,000 " " - -				129	57
Schenectady, " " " 1,200 " " - - -				92	71
Utica, " " " 2,000 " " - -				124	10
Johnstown " " " 1,200 " " - - -				84	36
Rome " " " 2,000 " " -			nominal	83	95
Gloversville, " " " 1,200 " " - - -				92	60

The average of the above is \$104.16. Herkimer paid last year after charging interest on bonds and five per cent. depreciation \$76.22.

Next—Hydrant rates are paid as follows by:

Auburn, N. Y., annually per hydrant	-	-	-	-	-	\$	33	00
Dolgeville, " " " " - - - - -							33	00
Greenwich, " " " " - - - - -							58	00
Little Falls, " " " " - - - - -							40	00
Medina, " " " " - - - - -							40	00
Peekskill, " " " " - - - - -							53	00
Phoenix, " " " " - - - - -							50	00
Port Chester, " " " " - - - - -							23	00
St. Johnsville, " " " " - - - - -							40	00
Seneca Falls, " " " " - - - - -							40	00

The average of the above being \$41.00.

Respectfully,

MUNICIPAL COMMISSION,

D. M. DEVENDORF,
HENRY CHURCHILL,
C. R. SNELL,
W. P. MUNSON.

Report of Superintendent.

To the Honorable Municipal Commission of the Village of Herkimer :

I herewith submit my sixth annual report of the departments under my charge for the past year.

Water.

The water supply has been ample for all demands upon it.

This should not be interpreted as meaning that the supply is inexhaustible, which it certainly is not, and were it not for the watchful care of Engineers Reynolds and Crego, supplemented by some work on the part of your Superintendent, a report of this kind could not be made.

Care should be exercised by all consumers. Rule 26 of the Rules and Regulations for the use of water should be read and observed, thereby not only aiding the water works officials in their care of the works but at the same time aiding each individual consumer in reduced expense of pumping, which directly affects you, and aiding the whole village by giving it better fire protection.

The following taken from the report of Mayor Perry of Grand Rapids, Mich., applies very forcibly to Herkimer. He says: "There should be no sentiment in the business of selling water. It is a business matter, and should be handled in a business way. The plant is operated in the joint interest of all the people, but as a general thing, if the rates collected from the water uses are sufficient to keep up the expenses of the plant, the property owner who does not use city water escapes payment for fire protection or for any other public use in which he may be interested. Justice demands that all should be used alike, and there is no good reason why the large consumer should have a better rate than the small one, except on the principle that "to him that hath shall be given." It costs a certain number of cents to pump a thousand gallons of water, and each gallon costs its share of this expense, so it follows that each and every gallon should be sold at a price as close to this cost as it is possible to do. No one should be favored, and all should pay for what they get—the city as well as the individual. As the matter now stands, in many public water plants the persons who use water pay a price for it that enables the city not only to maintain the plant, pay interest on the investment, furnish fire protection, and make extensions of the service. This is a state of affairs that should not exist, and the sooner we correct the evil the better, in case it exists in the city over which we have jurisdiction, the quicker, we shall be doing the public a real service.

SIXTH ANNUAL REPORT OF THE

One of the questions that comes up before us in selling water is one of "free water." There certainly can be no such thing as free water, unless, perhaps, it is when a man takes his bucket, goes to the source of supply and helps himself, and even then, if his time is worth anything, the bucket of water has an appreciable cost. I hold that there can be no such thing as free water when it is delivered through pipes as in the city's waterworks. Some one must pay for the cost of delivering each and every gallon, and, if some one has free water, it must follow that some user pays more than he ought, or else the plant will be run at a loss. I cannot understand why those who use water and pay for it should be asked not only to pay for what they themselves use, but in addition, to furnish the water used in parks, schools, and hospitals, or that they should be required to keep the watering troughs filled for the benefit of thirsty horses, fountains playing, sewers flushed, for fire protection, and other municipal uses for which a city is expected to have free water. A fire hydrant is located in front of a man's premises, and, as a consequence, his insurance rate is made lower. At the same time he may be buying his water of some private company, and not contribute one cent towards paying for the direct benefit of fire protection. This certainly is not right, and it is not just. The cost of water for fire protection should be spread upon all the taxable property of the city, in exactly the same manner as the expenses of maintaining the fire department are spread.

For the six years that I have been connected with this department, new mains and hydrants have been added each year. The number of water-takers has been increased 299.

No. of gals. pumped as per report April 1, 1901,	-	-	-	201,470,331
" " " " " April 1, 1896,	-	-	-	141,510,229

Increase in pumping,	-	-	-	-	-	59,960,102
Or over 42 per cent.						

Receipts as per report April 1, 1901,	-	-	-	-	-	\$10,119 91
" " " " April 1, 1896,	-	-	-	-	-	6,078 96

Increase in receipts,	-	-	-	-	-	\$ 4,040 95
Or over 66 per cent.						

Net operating cost as per report April 1, 1901,	-	-	-	-	\$6,451 46
" " " " April 1, 1896,	-	-	-	-	4,740 00

Increase in operating expenses,	-	-	-	-	-	\$1,711 46
Or 36 per cent.						

No. of fire hydrants as per report April 1, 1901,	-	-	-	-	78
" " " " April 1, 1896,	-	-	-	-	68

Increase,	-	-	-	-	-	10
Or 14 per cent.						

No. of ft. of pipe in water system as per report April 1, 1901,	51,073
“ “ “ “ “ “ “ April 1, 1896,	44,748
Increase in No. of feet.	6,325
Or 14 per cent.	
System cost as per report April 1, 1901,	\$76,171 83
“ “ “ “ April 1, 1896,	66,436 70
Added in 6 years,	\$ 9,735 13
Or 14 per cent.	

The larger part of this addition has been in additional land, new boilers and street mains.

Your attention in this department is now respectfully called to the following urgent wants, part of which apply with equal force to the Light Department:

When this water plant was first installed, a 60 horse power boiler was considered sufficient to furnish steam. Afterward the arc light system was added with something like 45 lamps. Now the 60 h. p. boiler became too small, and 100 h. p. boiler was added. The constant growth of the village necessitated more lamps and more power, and in 1898 the smaller of the two boilers was taken out and 180 h. p. boiler installed. Still more growth and the addition of the incandescent system forced us to exchange the 100 h. p. boiler for one of 200 h. p. capacity last year. We now find ourselves confronted with this proposition: A chimney with a 28-inch flue, which was ample at the time it was built, is now entirely inadequate, not being of sufficient flue capacity for either of the boilers, and we are forced each night to run both boilers. With this shortage of draught, of course comes increased and extravagant coal consumption. A new chimney with a flue of not less than 60 inches in diameter should at once be built.

Your attention was called last year to the fact that one of the pumps was too small for the work required of it, and a power-pump belting direct to the line shaft was recommended. This matter should be carefully considered.

Arc Lamps.

New locations for lights are constantly presenting themselves for your consideration. This is, of course, out of the question with our present arc equipment. The question of an addition to the arc lighting system is one that requires thorough investigation. There are many arguments used in favor of either of the two comparatively new systems, direct or alternating enclosed arc. The alternating is the later of the two, and if it should prove to be all that its advocates claim for it, it would be the better for the village, as both incandescents and arcs could be run from the same generator, thus giving greater economy in operation and running only one machine where four are now necessary.

Incandescent System.

The incandescent plant was started Oct. 1, 1899, and has now been in operation 18 months. At this time there are 234 customers using 5,092 lamps, seven motors, besides fans, pianos, etc., 52 transformers are in use and 90 meters.

The receipts from this department for the year ending March 31, 1901, were \$6,513.72. The cost of maintenance, including interest, and five per cent. depreciation, was \$4,181.48, leaving a balance of profit for the year \$2,332.24. The cost of extensions to the line, and the additions of the necessary meters and transformers, has, of course, been large, as the number of lamps installed during the year has been about 3,000. The success of the incandescent plant is now assured. A new and larger generator direct-connected to an engine is now almost a necessity. This unit should be of sufficient capacity to run both the incandescent and arc lamps, leaving besides a comfortable margin for increase. As the plant is now situated all machines are run to their full rated capacity every day in the 365. This we have been able to do for the past year without any serious drawback, but no one who is at all acquainted with electrical apparatus would imagine that this could be continued indefinitely. A duplicate steam and generating plant is a necessity, if the lighting is to be continued without interruption.

Sewers.

There are now six hundred and twelve (612) connections with the public sewer. I wish to repeat what I said in my report of 1899, viz: That the sewer system is all right for the purpose for which it was intended, house-drainage, and should be used for nothing else. Surface drainage was never intended when the sewer system was constructed, and should be looked after in some other way. Catch-basins and roof-water, where now permitted in the sewers, should be removed at once.

Ilion, Rome and Fulton are near-by towns where the same sewer system is in use, and their example in providing surface-drainage should be followed at once by Herkimer.

Yours respectfully,

E. W. SLUYTER.

Balance Sheet.

Assets.

WATER SYSTEM.

Cost, per report April 1, 1900	-	-	-	\$74,902 03	
Added since—Schedule A	-	-	-	1,269 80	\$76,171 83
				<hr/>	

ARC LIGHT SYSTEM.

Cost, per report April 1, 1900	-	-	-	18,835 75	
Added since—Schedule B	-	-	-	736 74	19,572 49
				<hr/>	

SEWER SYSTEM.

Cost, per report April 1, 1900	-	-	-	-	58,340 59
--------------------------------	---	---	---	---	-----------

FIRE SYSTEM.

Cost, per report April 1, 1900	-	-	-	-	4,469 78
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INCANDESCENT SYSTEM.

Cost, per report April 1, 1900	-	-	-	17,748 14	
Added since—Schedule C	-	-	-	3,526 28	21,274 42
				<hr/>	

SUNDRY INVENTORIES.

Light maintenance, Schedule D	-	-	-	420 55	
Water " " E	-	-	-	350 15	
Sewer " " F	-	-	-	132 65	
Police " " G	-	-	-	69 15	
Fire " " H	-	-	-	2,892 70	
General expense, " I	-	-	-	176 20	
Light and water inventory, Schedule J	-	-	-	182 81	
Incandescent light maintenance, Schedule K	-	-	-	472 08	
Boiler, Schedule L	-	-	-	400 00	5,096 29
				<hr/>	

OUTSTANDING ACCOUNTS.

Due from Town of Herkimer	-	-	-	167 95	
" " County of Herkimer	-	-	-	24 25	
" " Fred A. Gray	-	-	-	34 10	
" " Village of Herkimer for sprinkling	-	-	-	348 00	
" " E. W. Sluyter, Supt.	-	-	-	9 35	583 65
				<hr/>	

\$185,509 05

SIXTH ANNUAL REPORT OF THE

Liabilities.

BONDED DEBT.

Arc light bonds outstanding	-	-	-	-	-	\$14,000 00	
Water bonds	"	-	-	-	-	57,000 00	
Sewer	"	"	-	-	-	55,500 00	
Incandescent light bonds outstanding				-	-	13,000 00	\$139,500 00
						<hr/>	
Interest accrued and not due on arc light bonds						466 67	
"	"	"	"	water	"	1,523 96	
"	"	"	"	sewer	"	386 25	
"	"	"	"	incandescent bonds		379 18	2,756 06

DEPRECIATION ON LIGHT AND WATER SYSTEM
FOR 12 MONTHS.

[illegible]

Street Light Maintenance Account.

OPERATING COST FOR 12 MONTHS, APRIL 1, 1900, TO APRIL 1, 1901.

There are now 75 lamps in the circuit.

[illegible]

We formulate as a matter of general interest three propositions:

First proposition—Actual operating expenses

75 lamps - - - - - \$4,178 23, or per lamp \$55 71

Second proposition—Actual operating expenses

75 lamps - - - - - 4,178 23

Add one year's interest on bonds - - 560 00

\$4,738 23, or per lamp 63 18

Third proposition—Operating expenses and in-

terest for 75 lamps - - - - 4,738 23

Add 5 per cent. depreciation on plant - - 978 62

Operating expenses, interest and depreciation \$5,716 85, or per lamp 76 22

In comparing municipal plants with those of private ownership it is usual to estimate the amount of annual taxes which the latter are required to pay. If we make this addition it will increase the last amount by \$1.50, or a total of \$77.72.

Actual hours light furnished, 12 months, 3,344.

Candle power per hour furnished for one cent :

First proposition as above	- - - - -	1,200
Second " "	- - - - -	1,058
Third " "	- - - - -	881

Cost per lamp per hour :

First proposition, cents	- - - - -	1 66-100
Second " "	- - - - -	1 89-100
Third " "	- - - - -	2 23-100
Pounds of coal consumed, 12 months	- - - - -	963,072
Number miles streets lighted	- - - - -	13

Plant consists of :

One 6½x20 horizontal boiler and one 6½x18, with necessary pumps and fixtures used in connection with water system.

One 100-H. P. Ball tandem compound engine.

Two Edison 50-light arc dynamos.

Necessary switch board, lightning arresters, etc.

Thirty-one T. & H. double carbon lamps.

Four Edison single carbon lamps.

Forty daylight single carbon lamps.

Two hundred and ninety poles.

Twenty-one mast arms.

Incandescent or Commercial Light Maintenance.

Superintendent's salary	-	-	-	-	-	\$ 200 00
Treasurer's salary	-	-	-	-	-	15 00
Labor, Joe Lee	-	-	-	-	\$ 375 00	
" Sundry	-	-	-	-	55 80	
						430 80
Coal	-	-	-	-	-	1,563 40
Repairs to line	-	-	-	-	9 35	
Repairs to engine and building			-	-	43 06	
Repairs to belts and generators	-	-	-	-	151 41	
						203 82
Janitor	-	-	-	-	-	5 13
Oil, packing, waste	-	-	-	-	-	28 87
Hardware	-	-	-	-	-	16 88
Office rent and fuel	-	-	-	-	-	22 20
Pastage	-	-	-	-	-	12 26
Printing and stationery	-	-	-	-	-	32 34
Office furniture	-	-	-	-	-	1 18
Lamps	-	-	-	-	-	120 82
Miscellaneous	-	-	-	-	-	10 06
Interest on Bonds	-	-	-	-	-	455 00
						\$ 3,117 76
5 per cent depreciation on \$21,274 42			-	-	-	1,063 72
						\$ 4,181 48
RECEIPTS.						
Sale of lamps	-	-	-	-	\$ 125 00	
Sale of poles	-	-	-	-	5 00	
Sundry persons for incandescent lighting			-	-	6,369 92	
Turn police maintenance	-	-	-	-	13 80	
						6,513 72
Balance profit	-	-	-	-	-	2,332 24

Water Maintenance Report.

FOR TWELVE MONTHS.

Superintendent's salary	-	-	-	-	-	-	-	300 00
Treasurer's salary -	-	-	-	-	-	-	-	22 50
Labor, Martin Manion	-	-	-	-	-	-	80 50	
" William Crego	-	-	-	-	-	-	600 00	
" Geo. Lewis	-	-	-	-	-	-	230 00	
" Geo. Downs	-	-	-	-	-	-	135 00	
Sundry labor	-	-	-	-	-	-	62 65	
							<hr/>	\$ 1,108 15
Hardware and general expense	-	-	-	-	-	-	-	179 60
Oil, packing and waste	-	-	-	-	-	-	-	168 32
Repairs, pipe line	-	-	-	-	-	-	44 75	
Pumps and boilers	-	-	-	-	-	-	245 43	
							<hr/>	290 18
Coal	-	-	-	-	-	-	-	1,812 72
Books and stationery	-	-	-	-	-	-	-	27 99
Postage	-	-	-	-	-	-	-	34 43
Office rent and fuel	-	-	-	-	-	-	-	33 30
Insurance	-	-	-	-	-	-	-	21 00
Janitor	-	-	-	-	-	-	-	7 68
Miscellaneous	-	-	-	-	-	-	-	22 15
Office furniture	-	-	-	-	-	-	-	1 77
Water rebates	-	-	-	-	-	-	-	12 25
Bank and wall	-	-	-	-	-	-	-	414 42
							<hr/>	
Total operating expenses	-	-	-	-	-	-	-	\$ 4,456 46
Interest on outstanding bonds, 12 months	-	-	-	-	-	-	-	1,995 00
2 per cent. depreciation on \$76,171 83	-	-	-	-	-	-	-	1,523 44
							<hr/>	
Total	-	-	-	-	-	-	-	\$ 7,974 90

RECEIPTS—CREDITED.

From water rents, cash	-	-	-	-	-	-	\$ 10,119 91
Charged sewer maintenance	-	-	-	-	-	-	256 18
" fire	-	-	-	-	-	-	10 00
Village for water for sprinkling	-	-	-	-	-	-	348 00
							<hr/>
							\$ 10,734 09
							<hr/>
Balance profit	-	-	-	-	-	-	\$ 2,759 19

Pounds coal consumed	-	-	-	-	-	1,301,496
“ “ per 1,000 gallons of water	-	-	-	6	76	100
Total gallons of water pumped	-	-	-	201,470,331		
Less 20 per cent. for wastage between pump and consumer	-	-	-	-	-	40,294,066
Net	-	-	-	-	-	161,176,265
Hours actually pumped	-	-	-	-	-	4,887
First proposition - Actual operating expense	-	-	-	-	-	4,456 40
Second proposition - With interest on bonds added	-	-	-	-	-	6,451 46
Third proposition - Interest and two per cent. depreciation	-	-	-	-	-	7,974 90
Cost 1,000 gallons water, first proposition, in cents	-	-	-	-	-	2 21 100
“ “ “ “ second “ “	-	-	-	-	-	3 23 100
“ “ “ “ third “ “	-	-	-	-	-	4 91 100

System consists of :

One Knowles compound duplex pump, 11x18½x12x12.

“ “ “ “ “ 12x18½x10x12.

Two Knowles vacuum pumps.

One Knowles feed water pump.

One horizontal tubular boiler, 6½x20, with necessary fixtures used in connection with light system, and one 6½x18 boiler.

Eight-inch pipe	-	-	-	-	-	-	8,320 feet
Six-inch pipe	-	-	-	-	-	-	11,551 feet
Four-inch pipe	-	-	-	-	-	-	30,274 feet
Three-inch pipe	-	-	-	-	-	-	400 feet
One and one-half inch pipe	-	-	-	-	-	-	528 feet
Total pipe in streets	-	-	-	-	-	-	51,073 feet
Eight-inch valves	-	-	-	-	-	-	10
Six-inch valves	-	-	-	-	-	-	15
Four-inch valves	-	-	-	-	-	-	48
Total valves	-	-	-	-	-	-	73

Figures Showing Per Capita Consumption, Receipts per 1,000 Gallons, etc.

No. of net gallons delivered as above	-	-	-	-	-	161,176,265
Less used by sewer system	-	-	-	-	-	2,561,800
Total gallons consumed	-	-	-	-	-	158,614,465
Estimating the population at 5,600 equals 78 gallons per day per capita.						
No. of taps	-	-	-	-	-	1,034
Gallons average per tap for 12 months	-	-	-	-	-	153,250
“ “ “ per day	-	-	-	-	-	417
Meters in use	-	-	-	-	-	33

Gallons of water metered from Jan. 1, 1900 to Jan. 1, 1901	14,321,717
Received for same - - - - -	\$ 1,474 85
Average receipts per 1,000 gallons metered water in cents -	10 22-100
Gallons of unmetered water for 12 months - - - -	146,854,548
Receipts for same - - - - -	\$9,259 24
Average receipts for 1,000 gallons unmetered water in cents	6 30-100

Hydrants belong to the system as follows :

1. North side of German street, opposite Main.
2. Main, near residence of B. Patrick.
3. Main, opposite Court street.
4. Corner Main and Mary.
5. Main, opposite the Herkimer bank.
6. Corner Main and Park avenue.
7. Corner Main and Albany streets.
8. Main, opposite Mohawk street.
9. Main street, opposite George.
10. Corner Main and Smith streets.
11. Corner Washington and Steele streets.
12. Corner Washington and Smith streets.
13. Corner Washington and Perry streets.
14. Washington street, near Root's store.
15. Corner Washington and Albany.
16. Corner Washington and Green.
17. Washington, opposite Mary.
18. Corner Washington and Court.
19. Corner German and Prospect.
20. Corner German and Washington.
21. Corner Prospect and Church.
22. Prospect street, opposite Quackenbush's shop.
23. North side of Albany, on Prospect.
24. Mohawk street, near residence of E. Reardon.
25. Mohawk street, near Park House.
26. Second avenue. at north end.
27. First avenue, at north end.
28. Bellinger street, south of New York Central railroad.
29. Corner Bellinger avenue and Bellinger street.
30. Corner Bellinger and Church streets.
31. Corner Bellinger and German streets.
32. German street, near H. H. Bellinger's residence.
33. German street, opposite Horrock's Desk Co.
34. Corner German street and Dorf lane.
35. Dorf lane, near paper mill.
36. Dorf lane, at paper mill.
37. Steuben road, near William Smith's late residence.
38. Corner German street and Westlake avenue.

39. Corner German and Lake streets.
40. Lake street, opposite Orin Cole's residence.
41. Albany street, west side hydraulic canal.
42. Albany street, opposite King street.
43. Corner Eastern avenue and King street.
44. Eastern avenue, near east end.
45. Smith avenue near S. McLean's residence.
46. Eureka avenue, near center of avenue.
47. Corner Smith and King streets.
48. Corner Smith and Dewey avenue.
49. Corner George and William streets.
50. Corner Smith and Bellinger streets.
51. Eastern avenue, opposite Standard Furniture Company.
52. Westlake avenue.
53. German street, near J. G. Bellinger's residence.
54. Church street, near Graham Bellinger's residence.
55. Church street, near H. H. Batchelder's residence.
56. Caroline street, north of Church street.
57. Deimel street, north side.
58. Corner King and Perry streets.
59. Corner King and Steele streets.
60. Steele street, between Washington and King streets.
61. Stinson street, east end.
62. Corner Folts and Doxtater streets.
63. Corner Folts and Steuben streets.
64. Corner Folts and Harter streets.
65. Corner Harter and Green streets.
66. Bellinger avenue extension.
67. Bellinger street, opposite John Thompson's residence.
68. South William street, opposite M. Pupura's residence.
69. Green street, near Hydraulic bridge.
70. Corner Bellinger avenue and Caroline street.

Private hydrants as follows :

- Standard Furniture Company, 4.
- C. R. Snell's lumber yard, 1.
- Morris Mark's mill, 3.
- H. M. Quackenbush's shop, 1.

Police Maintenance Account.

Superintendent's salary	-	-	-	-	-	-	\$	100	00
Treasurer's salary, 12 months			-	-	-	-		7	50
Police salaries	J. T. Manion, chief		-	-				720	00
" "	W. F. Perry		-	-	-			596	68
" "	C. H. Miller		-	-	-			600	00
" "	Specials		-	-	-	-		100	79
									<u>\$2,017 45</u>
F. A. Gray	-	-	-	-	-	-		500	00
Uniforms	-	-	-	-	-	-		33	75
Rent police headquarters			-	-	-	-		50	00
Fuel " "			-	-	-	-		28	73
Police expenses		-	-	-	-	-		64	62
Furniture	-	-	-	-	-	-		8	09
Stationery and printing	-	-	-	-	-	-		8	17
Office rent and fuel, municipal office				-	-	-		11	00
Postage	-	-	-	-	-	-		78	
Janitor	-	-	-	-	-	-		2	56
Bicycle depreciation		-	-	-	-	-		5	00
Telephone	-	-	-	-	-	-		7	91
Miscellaneous	-	-	-	-	-	-		18	08
Lighting	-	-	-	-	-	-		14	75
									<u>\$2,878 51</u>
									EARNINGS,
By F. A. Gray	-	-	-	-	-		\$220	24	
By Morris Fikes	-	-	-	-	-	-		2	40
By town of Herkimer			-	-	-	-		436	90
By county of Herkimer			-	-	-	-		38	55
Total earnings		-	-	-	-			<u>\$698</u>	<u>09</u>
Net operating cost	-	-	-	-	-	-		\$2,180	42

Schedules.

Schedule A.

CHARGES TO WATER SYSTEM.

500 feet 4-inch cast iron pipe, Bell street, valve and hydrant	\$ 238 54
Labor on above - - - - -	47 85
Corporation cocks and tapping mains - - - - -	23 52
Building bank along creek - - - - -	256 48
One-third of new boiler and connections - - - - -	703 41
	<hr/>
	\$1,269 80

Schedule B.

ADDITIONS TO ARC LIGHT SYSTEM.

Wire and lamps - - - - -	\$ 33 33
One-third of new boiler account - - - - -	703 41
	<hr/>
	\$ 736 74

Schedule C.

ADDITIONS TO INCANDESCENT LIGHT SYSTEM.

Wire - - - - -	\$309 44	Engine and belting - - - - -	96 59
Cross-arms, pins, brackets, etc. - - - - -	63 42	Freight, cartage and express - - - - -	31 98
Watt meters - - - - -	733 40	Labor - - - - -	268 97
Transformers - - - - -	958 68	One-third of new boiler - - - - -	703 41
Lamps - - - - -	360 39		<hr/>
			\$3,526 28

Schedule D.

ARC LIGHT MAINTENANCE, INVENTORY MATERIAL, ETC., ON HAND.

9 Edison lamps, old	\$ 45 00	20 lbs. guy wire	-	60
1 T. & H. lamp	18 00	1 16 foot mast arm	-	4 00
1 daylight lamp	10 00	1 lineman's dead man	-	1 00
Small lamp repairs	25 00	1 40x13 inch iron pulley	-	12 00
15 globes	11 25	1 gasoline stove	-	3 50
4 series lamp fixtures	7 00	10 lbs. of packing	-	7 50

4 entrance switches - -	8 00	1 bellows - -	50
1 pair iron blocks and rope	5 00	1 pair rubber gloves - -	1 00
3,000 5/8-inch carbons -	37 80	1 12 foot ladder -	1 00
2,000 1/2-inch " -	17 50	Fire tools - - -	3 00
4 T. & H. hoods complete	15 00	300 ft. of 1 in. wrought iron pipe	24 00
2 pair of spurs - -	2 50	1 engine ring - -	2 00
1 connector - -	75	3 series lamps - -	3 75
1 pair of plyers - -	60	1 magneto bell - -	7 00
1 come-a-long - -	1 25	5 gallons dynamo oil -	2 00
1 screw driver - -	25	2 arc ampere meters -	15 00
1 18 foot ladder - -	1 50	Insurance - - -	40 00
1 26 foot ladder - -	2 60	1 Globe stove - -	4 00
10 lbs. No. 6 wire -	2 00	1 cupboard - - -	3 00
1 spoon - -	1 00	3 lanterns - -	1 20
1 bar - -	1 00	1 Portable volt meter -	20 00
20 30 foot poles - -	50 00		
2 pails - -	50		420 55
50 locust pins - -	1 00		

Schedule E.

WATER MAINTENANCE, INVENTORY MATERIAL, ETC., ON HAND.

1 Payn's tapping machine	\$60 00	1 water gauge - -	5 00
1 Payn's " " old	5 00	4 corporation cocks -	3 00
1 water meter, 1/2-inch	12 00	1 cast iron ell, 8-inch -	4 80
1 " " 3/4-inch	18 00	" " " " 6-inch	3 00
1 " " 1 1/4-inch	30 00	" " " " 8-in , 45 deg.	4 80
3 2 1/2-inch hydrant gate valves	18 00	1 cast iron Y, 4x8-inch -	7 20
2 valve wrenches -	5 00	3 " " Y's, 8x10-inch	21 00
1 hydrant wrench - -	50	1 " " sleeve, 4-inch -	1 50
1 water tank - -	1 00	1 " " cap, 6-inch -	2 40
1 tool chest - -	2 00	4 " " sleeves, 10 inch	14 00
1 set cast iron pipe cutters	15 00	2 " " reducers, 10x4-inch	6 00
1 set calking tools -	5 00	1 " " plug, 6-inch -	1 20
2 valve box extensions -	2 00	6 " " Y's, 6x10-inch	18 00
1 hydrant extension -	1 25	1 " " reducer, 6x8-inch	3 90
1 lead kettle - -	5 00	5 mal. ells, 4-inch - -	2 50
350 lbs. pig lead -	21 00	40 ft. 4 inch wrought iron pipe	8 00
1 4-inch gate valve -	7 00	1 coupling, 10-inch -	30
2 round pointed shovels	1 00	1 tee, 6x6-inch - -	50
12 ft. of 10-inch cast iron pipe	5 00	1 tee, 4x8-inch - -	30
Quantity of hydrant seats	4 00		
1 feedwater pump - -	15 00		\$350 15
Valve springs - -	10 00		

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Schedule F.

SEWER MAINTENANCE, INVENTORY MATERIAL, ETC., ON HAND.

2 alligator wrenches	-	\$ 1 00	1 vitrified tees, 10x29	-	1 50
1 catch basin	-	15 00	46 feet vitrified pipe, 20 inch	-	18 40
1 manhole top	-	5 00	30 " " " 18 inch	-	12 00
2 20-inch vitrified Y's	-	1 50	20 Ys 12-inch	-	20 00
450 ft. iron pipe and couplings	-	36 00	10 " 8 " "	-	5 00
1 ½ tons of soft coal	-	4 00	1 increaser 8x10 inch	-	50
1 wrench	-	30	Quantity of manhole gaskets	-	1 00
Quantity of wood	-	1 00	Insurance	-	8 60
Fire tools	-	35			
3 vitrified tees, 12x12	-	1 50			\$132 65

Schedule G.

POLICE MAINTENANCE, INVENTORY MATERIAL, ETC., ON HAND.

3 helmets	-	\$1 00	1 dozen police clubs	-	1 00
2 call whistles	-	40	3 desks	-	15 00
3 chairs	-	2 00	1 stove	-	8 00
1 bicycle	-	5 00	3 police uniforms	-	3 00
9 badges	-	4 00	2 overcoats	-	20 00
3 pair of handcuffs	-	3 00	1 overcoat	-	5 00
1 pair of nippers	-	75			
4 twisters	-	1 00			\$69 15

Schedule H.

FIRE MAINTENANCE INVENTORY MATERIAL, ETC., ON HAND.

4 ½ pairs hose couplings	\$ 22 50	3 Cooper hose jackets	-	35 00
5 zincs for battery	2 00	1 sleigh	-	2 00
40 lbs. blue vitrol	2 80	1 hand truck	-	1 50
Lumber	1 00	8 nozzles	-	40 00
6 lbs. of copper wire	60	1 spray nozzle	-	12 00
1 snow shovel	40	1 back pressure valve	-	20 00
20 hose washers	1 00	25 hose wrenches	-	10 00
1 steam fire engine	900 00	30 working suits	-	100 00
1 hook and ladder truck	320 00	25 parade suits	-	340 00
1,700 ft. of fire hose	300 00	30 " " "	-	320 00
1,000 ft. " " new	360 00	11 expansion rings	-	1 00
7 hydrant wrenches	450 00	Insurance	-	6 40
3 hose carts	30 00			
1 " " "	45 00			\$2,892 70
2 stoves	15 00			

Schedule I.

GENERAL EXPENSE, INVENTORY MATERIAL, ETC., ON HAND.

2 desks	-	-	-	-	-	-	-	-	-	\$14 00
Building	-	-	-	-	-	-	-	-	-	70 00
Plumbing	-	-	-	-	-	-	-	-	-	35 00
Stove and pipe	-	-	-	-	-	-	-	-	-	10 00
3 chairs	-	-	-	-	-	-	-	-	-	7 20
Books and stationery	-	-	-	-	-	-	-	-	-	10 00
1 safe	-	-	-	-	-	-	-	-	-	30 00
										<hr/>
										\$176 20

Schedule J.

LIGHT AND WATER, INVENTORY MATERIAL, ETC., ON HAND

3 barrels of fire clay	-	\$ 4 80	2 scoop shovels	-	-	1 20
1 hoe	-	-	25	2 brooms	-	40
1 jack screw	-	2 50	7 saw horses	-	-	1 40
25 lbs. of kalsomine	-	1 00	1 oil filter	-	-	4 00
1 platform scales	-	10 00	100 ft. of 2½-inch fire hose	-	-	12 00
2 pails	-	30	2 wheel barrows	-	-	1 00
75 lbs. of waste	-	5 25	3 steel bars	-	-	2 25
5 packages of gold-dust	-	90	2 lanterns	-	-	60
4 cakes of soap	-	16	2 ½-gallon measures	-	-	50
1 mop	-	15	250 fire brick	-	-	10 00
Quantity of lag screw and bolts	3 00		100 brick	-	-	70
1 chain tongs	-	2 50	Quantity of lumber	-	-	10 00
3 cable chains	-	5 00	“ “ blocking	-	-	3 00
2 1-barrel oil tanks	-	6 00	1 eight day clock	-	-	3 00
1 oil can	-	10	1 iron coal barrow	-	-	5 00
Quantity of pipe and fittings	10 00		2 lawn mowers	-	-	7 00
2 yards of stone	-	3 00	1 table	-	-	1 00
100 feet of mill hose	-	8 00	17 lbs. of gaskets for boilers	-	-	8 00
1 pipe stock and dyes	-	5 00	1 set of chain hoists	-	-	7 00
1 cut off	-	1 00	1 pipe vice	-	-	3 00
1 hand saw	-	50	1 flue cleaner	-	-	2 00
4 pipe wrenches	-	3 00	1 flue blower	-	-	4 50
1 hammer	-	50	1 flat top desk	-	-	5 00
5 gals. international engine oil	-	85	10 S. G. tubes	-	-	1 50
30 gals. of cylinder oil	-	12 00				<hr/>
¾ barrel of soda ash	-	3 00				\$182 81

Schedule K.INCANDESCENT LIGHT MAINTENANCE, INVENTORY MATERIAL,
ETC., ON HAND.

5 transformer fuse boxes	\$ 10 00	6 T arms	-	-	-	60
1 pr. transformer fuse boxes	4 00	4 iron fixtures	-	-	-	4 00
2 600 Watt transformers	- 40 00	40 lbs. guy wire	-	-	-	1 20
1 5-ampere Watt meter	- 12 00	200 lbs. No. 6 guy wire				6 00
40 gals. transformer oil	- 4 00	25 35-foot poles	-	-	-	75 00
150 lbs. insulated wire	- 30 00	8 2-pin cross arms	-	-	-	1 04
2 P. & S. junction boxes	- 3 00	3 6-pin " "	-	-	-	1 02
2 extra plugs	- 50	16 4-pin " "	-	-	-	1 92
Quantity lag bolts	- 3 00	50 D. P. glass insulators	-	-	-	1 00
10 D. P. glass insulators	20	100 ft. of No. 4 cable wire				1 50
1 gasolene soldering pot	- 4 50	1 26-inch belt, 90 feet	-	-	-	200 00
40 oak brackets	- 80	1 spoon	-	-	-	75
1 gasolene torch	- 2 00	2 bars	-	-	-	2 00
1 safety belt	- 1 50	3 pike poles	-	-	-	2 00
1 5/8-inch ship auger	- 75	2 36-inch pulleys	-	-	-	16 00
1 1/2-inch " "	- 50	1 12x15 inch wood pulley				2 00
1 3/8-inch extra long bit	- 50	1 alternating arc lamp	-	-	-	15 00
1 hammer	- 30	1 lb. Manson tape	-	-	-	60
1 wrench	- 40	1 portable volt meter	-	-	-	20 00
40 ft. hand line	- 50					
1 ratchet brace	- 1 25					\$472 08
1 hand axe	- 75					

Schedule L.

BOILER ACCOUNT.

1 5 1/2x16 foot boiler	-	-	-	-	-	\$400 00
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Rules and Regulations for Use of Water.

I. *Application for Water.*—All applications for the introduction or supply of water to any premises, or for the extension of any pipe for the conveyance of such water, must be made in writing on the books of the Commission, and if the applicant is not the owner of the premises, the written consent of the owner must accompany the application.

When more than one building, or one tenant, is supplied through one service pipe, the application for the supply of such buildings, or tenants, shall be made by one person, and said person shall be held responsible for all supplies through said service pipes.

II. *No Permits* —No permits will be granted for baths, water closets or wash basins, when it is not also taken for household or office purposes.

III. *Plumbing.*—The introduction of service pipe for the supply of premises with water, and all plumbing of every description, for the use or distribution thereof, must be done by plumbers licensed by the Commission and who shall be under bonds to the Commission for the faithful performance of their work, in accordance with the Rules and Regulations of the Commission.

Penalty.—For any violation of this rule a penalty of ten dollars will be incurred, and the use of water will not be allowed on the premises until the same is settled.

IV. *Applications for Additions and Alterations* —No additions or alterations whatever, in or about public or private pipes, shall be made by any person until the application therefor has been made on the books of the Commission, and a written permit given by the Superintendent or Secretary.

Penalty.—For any violation of this rule a penalty of ten dollars will be incurred, and the flow of water will be stopped until the same is settled.

V. *Commission not to Connect.*—The plumbing on the premises to be supplied with water must be completed before any connection with the mains shall be made; and the Commission reserves the right to decline to connect the plumbing not in accordance with the Commission's Rules and Regulations.

VI. *Openings and Work in Streets.*—The streets must be opened and the paving stones and earth deposited in a manner that will occasion the least inconvenience to the public and provide for the passage of water along the gutters; the paving and flagging must be restored as quickly as possible to as good condition as previous to the excavation, and all work in the streets in making service connections and repairs, must be at the sole risk and responsibility of the person having the same done, or the plumber doing the same.

VII. *Owner or Tenant Must Not Supply Other Persons. Must Have Independent Service, Except by Permission. Where Two or More are Supplied by One Service.*—No owner or tenant of any premises supplied with water by the works will be allowed to supply water to other persons or families; if found so doing the supply will be stopped and the amount paid forfeited; and except where special permission is granted by the Commission, each consumer must be supplied by independent service pipe from the main. In case two or more parties are supplied with water from the same

service, if either of the said parties fail to pay the water rates when due, or to comply with any rule of the Commission, the Commission may turn off the water from such pipe until the rent is paid and the rule strictly complied with.

VIII. *Service Pipe and Fixtures Subject to Approval of Commission Service Cock.*—All lateral or service pipes, for public or private use, and all necessary fixtures connected therewith, shall be subject to the approval and laid under the supervision of the Superintendent; said pipes, etc., must be protected from the frost by and at the expense of the applicant. All connections with the street mains will be made by the Commission. In all cases, a stop cock with well and cover, shall be put in at the curb, or outer edge of the walk, and another, with waste, inside of cellar wall.

IX. *Use for Protection.*—The Commission has the right to use any of the service cocks when necessary for its own protection.

X. *Turning on Water.*—No plumber or consumer shall turn on water to any premises, whether old or new supply.

XI. *Notice when Connection to be Made or Water Turned Off.*—Notice must be left at the office of the Commission the day before any service is to be put in, stating the street and number of the location and the name of the person owning or occupying the premises, and the exact time when the trench will be ready for making the connection; and a like notice must be left when the water is to be turned on to any premises.

XII. *Street and Lawn Sprinklers.*—The season for the use of water for street or lawn sprinklers, or yard fountains, begins May 1st and expires on November 1st.

No abatement in the regular charge will be made for any fractional part of the term.

The use of hand hose for street sprinkling will not be allowed between the hours of 9 A. M. and 4 P. M.

All hose attachments, if used as sprinklers, will be charged in addition as sprinklers, and subject to the rules regarding sprinklers.

Street sprinklers or washers, must not be used to sprinkle beyond the center of the street, or the limits of the premises of those paying for them; or for filling cisterns, or converted into jets, or to be used for washing down the collections of gutters upon neighboring premises, or used to flood the streets, but merely to sprinkle them, and must not be permitted to run except when in actual use; and it is expressly understood that the water paid for as street and lawn sprinklers, cannot be used for any other purpose, except in case of fire; and parties so using it are liable to have the water turned off without notice.

XIII. *Waste Water.*—Taps at sinks, wash basins, water closets, bath, urinals, sprinklers, and for other uses, must be kept closed when not in actual use, and not be allowed to leak.

XIV. *Fountains.*—No yard, fountain or jet, shall be used longer than six hours a day for six months in the year, without special arrangement; and the application shall state at what hours it shall be used, and if found running at any other time the water will be shut off from the premises.

XV. *Inspection of Premises.*—The Superintendent personally, and any person delegated by him for that purpose, must at all reasonable hours have free access to all parts of the premises where water is delivered for the purpose of inspection, examination of fixtures, etc., and all persons using water must, at all times, frankly, and without concealment, answer all questions put to them relating to its consumption.

XVI. *Vacating Premises Transfer of Balance of Rates Paid.*—Consumers vacating their premises must give notice at the office of the Commission, that the water may be shut off; and they will be held responsible for the water rate until such notice is given. When there is a change of occu-

pants the balance of a bill paid in advance may be transferred, on notice at the time, to other premises for the same uses, but no balance of a bill will be refunded.

XVII. *Leaks* —When leaks occur in service pipes at any point beyond the main pipe, they must be immediately repaired by the owner or occupant; and if not repaired within a reasonable time, after notice, the water will be shut off until repaired.

XVIII. *Payment of Water Rates* —All water bills shall be paid on the first day of April and October, at the office of the Commission, in advance; street washers, fountain and yard sprinklers, payable for the season. All bills must be paid within thirty days from date of same, or water will be shut off without notice. When meters are used, the estimated amount shall be paid in advance, subject to meter measurement.

XIX. *Water Closets* —None but self-closing water closets or urinals shall be used, which must be subject to the approval of the Superintendent.

XX. *Fraudulent Misrepresentations, Uses, Waste, Etc.* —In case of misrepresentation on the part of the applicant, or uses of water not embraced in the application, or of wilful or unreasonable waste of water or violation of any of the Rules and Regulations of the Commission, or non payment of rates when due, in addition to the penalties hereinbefore imposed, the water will be cut off without notice, and the payments will be forfeited, and the water will not be turned on again unless satisfactory assurance that no further cause of complaint shall arise and the payment of such penalty as the Commission shall impose; and the sum of one dollar will be charged for turning on the water again.

XXI. *Check Valve*. —All house and other boilers shall be fitted with a suitable check valve to prevent accidents from collapse or damage in case the water is suddenly drawn off from the main pipes.

XXII. *Meters* —The Commission reserve the right to attach meters at any time whenever they shall deem it expedient, and charge for the quantity of water measured, or used, instead of the special rates. A reasonable charge will be made for the uses of meters.

XXIII. *Deficient Supply* —The Commission reserve the right to shut off the water for alterations, extensions and repairs, and to stop and restrict the supply of water whenever it may be found necessary; and the Commission shall not be liable, under any circumstances, for the deficiency or failure in the supply of water, whether occasioned by shutting off the water to make repairs, or connections, or for any other cause whatever.

XXIV. *No Rebate for Partial Uses*. No rebate from rates will be allowed for partial use of water from wells, cisterns, etc.

All fixtures for the supply of water for which the Commission have regular rates must be paid for or disconnected from service pipe.

XXV. *Changing Rules and Rates*. —The Commission reserves the right to change the Rules and Regulations and the rates for the use of water from time to time, and to make special rates, or contracts, in all proper cases.

XXVI. *Right to Use Water as Agreed Only*. The Commission agrees to furnish water on certain terms for certain specified uses, for a certain sum.

Therefore, the consumer will not be permitted to use it for any other purpose than that stated in the agreement.

Rules for Plumbers.

1. In no case must a plumber turn on water for a consumer without the written consent of the Commission, under a penalty of ten dollars.

2. The Commission will furnish and put in Corporation Taps, and no other person will be allowed to tap the mains.

3. All tapping of mains will be done by the Commission.

4. All service pipe from the mains to the curb stone must be equal in strength to "AA" lead pipe. Where service pipe of a more rigid material than lead pipe is used, it must be connected with the mains by at least two feet of lead pipe, and the stopcock at the end must have nut and washer.

5. The service pipe must be laid at least four feet below the surface of the street, and in such a manner as to prevent rupture by settling and must be provided with a Glauber Improved Stopcock at the curb stone in all cases. whether a street washer is attached or not, protected by a box of the Gould pattern leading from the same to the surface, with an iron cover, with the word "water" marked thereon and so exposed as to be readily found; the whole to be subject to the approval of the Commission.

6. Notice must be left at the office of the Commission on the day previous to the one on which the tapping will be required, stating the hour when the street will be open at the main; and after the tapping is done the connection must be made, and the street and pavement put in good condition, and all rubbish removed with as little delay as possible.

7. All service pipe shall be at least one-eighth of an inch larger in the interior than the Corporation Tap.

8. A Glauber stop and waste cock must be located inside the building, and the pipes so arranged that the water can be drawn from them whenever there is danger of its freezing.

9. No plumber will be allowed to open the street for the introduction of service without a written permit from the Commission; and the water must not be turned on for use until an application has been signed at the office of the Commission, stating fully the purposes for which the water is to be used.

10. No addition or alteration whatever, in or about any public or private pipe, conduit, water cock or other fixtures, shall be made by any person without permission first had in writing from the Superintendent. Any plumber or other person making such addition or alteration shall be subject to a penalty of ten dollars for each offense.

11. Each plumber will be provided with blanks which are to be filled out and returned to the office of the Commission as soon as the work is completed.

12. On the first day of May in each year any plumber wishing to engage in repairs of Herkimer water pipes, or laying new services, must obtain a permit from the Commission, and in case of a violation of any of the above rules the permit will be revoked.

13. All fixtures, except water closet tanks, hereafter connected with the Herkimer water works, on either old or new work, shall be Fuller pattern bibbs, basin or pantry cocks.

14. All house or other boilers shall be fitted with a suitable check valve to prevent accidents from collapse or damage in case the water is suddenly drawn off from the main pipes.

Tariff of Annual Rates.

BATHS.		OFFICES.	
Public, each tub.....	\$ 15 00	Law.....	\$ 4 00
Hotel, " ".....	10 00	Physician.....	4 00
Boarding Houses, each tub.....	5 00	Dentist.....	6 00
Private Dwellings.....	3 00	Bath Tub.....	3 00
" " each additional tub	1 00	Water Closet.....	3 00
BARBER SHOP.		Urinal.....	3 00
First Chair.....	4 00	PRINTING OFFICES.	
Each additional chair.....	1 00	For ten hands or less.....	10 00
BAKERIES.		Each additional hand.....	1 00
One Faucet.....	6 00	(Exclusive of Steam Engine.)	
Provided that no bakery shall		PHOTOGRAPH GALLERIES.	
pay less than \$6.00 per annum,		One Faucet.....	6 00
exclusive of charge for steam		RESTAURANTS AND SALOONS.	
boilers.		One Faucet.....	10 00
BOARDING HOUSES.		SLEEPING ROOMS.	
From.....\$5 00 to	\$20 00	In Blocks or Stores, each.....	4 00
Baths, per tub.....	5 00	Bath Tub.....	3 00
Water Closet.....	6 00	Water Closet.....	3 00
" " each additional..	3 00	Urinal.....	3 00
Urinals.....	4 00	SCHOOLS—(Not Boarding.)	
BUILDING PURPOSES.		For 25 scholars or less.....	6 00
Laying stone, per cubic yard...	3 cts	Each additional scholar.....	05
Laying brick, per thousand	4 cts	SODA FOUNTAINS.	
Plastering, per 100 square yards	20 cts	One Faucet.....	8 00
BLACKSMITH SHOPS.		STEAM ENGINES.	
One Fire.....	4 00	Metre rates.	
Each additional.....	1 00	STORES.	
DWELLINGS.		Provision, Drug, Grocery and	
For a family, in a house, one		Liquor.....	4 00
faucet.....	4 00	Other stores.....	4 00
For each additional faucet (not		STABLES.	
including bath tub or water		Livery, Omnibus and Boarding	
closets).....	1 00	stalls, each.....	1 00
FOUNTAINS.		Private, with water for washing,	
(To be used 6 hours per day for		not exceeding one horse.....	2 50
6 months in the year.)		Each additional horse.....	50
1-16 inch delivery.....	5 00	Each cow.....	50
Each additional jet of 1-16 inch.	3 00	Hotel Stables, per stall.....	50
1/8 inch delivery.....	8 00	SPRINKLERS Street, See Rule 12.	
Each additional jet of 1/8 inch...	4 00	One front, not exceeding 50 feet	2 50
GREEN HOUSES.		Each additional foot above first	
Private.....	4 00	50 feet, per running foot.....	05
Public.....	10 00	If on corners, additional to above	
HOTELS.		per foot.....	2 1/2 cts
From.....\$5 00 to	30 00	All Hose Attachments to be	
Bath Tubs, each.....	10 00	charged as sprinklers	
Water Closets.....	6 00	SPRINKLERS—Lawn or Garden.	
Urinals.....	3 00	For watering Lawns or Gardens,	
Wash basins in sleeping rooms,		and washing inside walks,	
whether supplied by faucet or		stoops and outside of buildings,	
carried to rooms.....	50	included in street sprinkling..	
LAUNDRIES.		If revolving or movable sprink-	
General purposes.....	10 00	lers are used, one half the	
MECHANICAL SHOPS.		above rates will be added.	
Not exceeding 25 hands.....	8 00	WASHTUBS—Permanent.	
Each additional hand.....	10	In use for not more than eight	
Water Closets, each.....	6 00	persons.....	1 00
Urinals, each.....	3 00	Per each additional.....	1 00
MARKETS.		WATER CLOSETS.	
Meat or Fish.....	4 00	Private dwellings.....	3 00
		Additional Closet.....	1 00
		Banks.....	6 00
		Saloons.....	10 00

Sewerage Ordinance.

SECTION I. The Board of Health and the Municipal Commission or either of such Boards shall have power to stop and prevent the discharge of sewerage from any premises in the village of Herkimer into or upon any public highway, stream or water course or public place, or into any drain, cess-pool or private sewer, or to order a connection to be made with the public sewer, for the removal of sewage from any premises whenever in the opinion of either of such Boards the public interest demands it ; and any person who shall neglect or refuse to comply with the order of such Board within ten days from the service of such notice that any such order has been made, shall be guilty of a misdemeanor, and shall pay a fine of not less than \$10, nor more than \$50, upon conviction thereof.

SECTION II. It shall be a misdemeanor to do, or cause to be done, any of the following acts, except as hereinafter provided ; and any and all persons guilty thereof shall be liable upon conviction to pay a fine of not less than \$5, nor more than \$50 for each offense :

1. To uncover the public sewer for any purpose, or make connections therewith, or to uncover the public inspection or connection branches thereof, or to open any manhole, or flush tank, unless and except with the written consent and under the supervision of the Municipal Commission or its authorized agent.

To do or cause to be done any injury of any kind in any manner to the pumping station building, the engine and pumps or any connection therewith, or outlet pipe or any part of the apparatus, or any other of the appliances, connections, or parts of the public sewers.

2. To make or cause to be made any connection for the removal of sewerage from any premises with the storm water drain of the village or with any stream or water course within the limits of the village.

3. To make or cause to be made any connection with a house connection, or to connect any closet with a branch of the public sewer, except under a written license for the work signed by the Municipal Commission or its duly authorized agent

4. To make or cause to be made any such connections, by any person than a mechanic, duly authorized to do such work by the Municipal Commission or the Board of Trustees of the village of Herkimer or to make any such connection in any manner other than as follows, to wit :

(a) Every pipe connecting with the sewer from a point five feet outside the foundation walls of the building proposed to be connected must be either of heavy cast iron or of salt glazed vitrified earthenware ; must be sound and impervious in all its parts ; must be proportionately laid on a true grade as nearly as possible on a straight line ; all changes in its direction must be made with properly curved pipe ; must be jointed in the best manner, and covered to a depth of at least one foot with well rammed fine earth, entirely free from stone and rubbish, within forty-eight hours after the back filling of the trench is completed the paving or ballast must be replaced and the street left in the best condition to the satisfaction of the Municipal Commission, or its duly authorized agent, and in no case shall the public sewers be used by any private individual, until the connections therewith have been inspected and approved by the Municipal commission or its duly authorized agent, and permission in writing for such use has been granted by the said Municipal Commission or its duly authorized agent.

(b) In all cases gaskets must be used to prevent cement or lead from running into the pipes.

(c) No drain connected with the sewer shall be laid with a less inclination or grade than one in sixty without the written permission of the Municipal Commission or its duly authorized agent.

(d) All drains connected with the public sewer shall be at least four inches in interior diameter. No earthenware pipe shall be laid less than two feet six inches deep. Pipes laid at less depth than the above shall be of heavy cast iron with well caulked lead joints.

(e) No person or corporation shall hereafter lay any pipe or conduit for any purpose whatsoever in any street within five feet of either side of the public sewer in such street without the permission of the Municipal Commission.

(f) No more than one building shall be connected with the public sewer through one drain without special permit signed by the Municipal Commission or the president thereof.

(g) In opening trenches on any street or public way the paving or bal-
last must be removed with care ; the sides of the trench must be sheeted or braced when directed by the Municipal Commission or its agent, the earth thrown from the trenches must be placed so as to cause the least obstruction possible to public travel, gas and water pipes must be protected from injury and the trench enclosed and lighted at night, and every precaution necessary taken to prevent injury to persons and property, during the progress of the work as it shall be directed by the Municipal Commission or its duly authorized agent.

(h) Any settlement over a drain connecting with the public sewer occurring within ninety days after it has been laid shall be repaired at the expense of the owner of the property from which such drain has been laid.

(i) Notice must be left at the office of the Commission or its agent at least twenty-four hours before the beginning of any work upon a drain, and no material shall be used or work covered until inspected by the Commission or its duly authorized agent.

(j) Permits to make connections with the public sewers shall be issued only when the plumbing in the house or building to be connected is in accordance with the rules for plumbing hereinafter described.

SECTION III. Before any building can be connected with the public sewer the plumbing in such building shall be inspected by the Board of Municipal Commission or its duly authorized agent and approved by him and a certificate of such approval filed in the office of the Commission. Under no circumstances can any mechanic doing the work of plumbing or house drainage, or any employee of such mechanic, act as the agent of such Commission to perform the duties prescribed in this ordinance.

(a) All pipes from the sewer connections to the top of the soil pipes shall be fully three inches in diameter at every point.

(b) No trap or manner of obstruction to the free flow of air through the whole course of the drain and soil pipes will be allowed, and any mechanic or other person who shall directly or indirectly place, make cause or allow to be placed or made any trap, obstruction, contraction or other obstacle anywhere in the course of such drain or soil pipes shall be liable to pay a fine of not less than \$5, nor more than \$40, for each and every offense, and, if a licensed plumber, shall be liable upon conviction of such offense, to forfeit his license and shall be ineligible to relicense for one year.

(c) Every connection of a water closet, sink, basin or other vessel connected with the soil pipe or drain must be separated from it by at least one trap properly arranged so as to prevent the passage of air or gas from the soil into the building. All details of plumbing work must be of a kind and quality to be approved by the said Commission or its duly authorized agent.

The discretion of said Commission or its agent in approving plans and accepting the work as above shall be limited only by the following requirements, viz:

1. No water closet shall be set up in any house or building in which its walls are not freely and fully washed by the normal discharge of the closet at each operation, nor shall any hopper closet be set up which has a trap of less than one and three-quarter inches seal.

2. Every trap constructed which is so situated as to be subject to siphonage by momentum or by suction shall be of a kind that can not have its water seal broken by siphonage or shall have an effective mechanical seal.

3. No cowl, return bend or trap shall be used at the top of any soil or vent pipe.

4. Every lateral branch extending more than fifteen feet from a ventilated soil or vent pipe with which it is connected shall be independently vented through the roof of the building up a pipe its full diameter. There shall be no trap in the course of such branch or vent pipe, each fixture being independently connected with it and having its own trap.

5. No fixture shall be trapped by having its outlet connected with the trap of another fixture.

6. From a point five feet outside the foundation walls of a building no material may be used for soil, waste and vent pipes other than wrought iron or cast iron pipes with securely leaded joints or lead pipes with soldered or wiped joints. Cement or putty joint, tin or sheet iron pipes, whether galvanized or not, shall not be used.

7. No connections may be made at any point of the house drainage system with roof gutters or any other channel for the conveyance of rain-water without permission from the Municipal Commission or their agent except that plumbing fixtures may be supplied from tanks constructed to store rain or city water for such purpose.

8. All soil and water pipes shall be direct as possible and all parts of the work shall be so arranged that they may be at all times readily examined and repaired. Before the fixtures are placed in connection with the plumbing of any house or building and before said pipe is connected with the drain the outlet of the soil pipe and all opening into it shall be hermetically sealed, the pipes shall then be filled with water to its top, and every joint shall be carefully examined for leakage, and all leaks shall be securely closed before connections with the soil pipes are made, except in cases of inspection of plumbing already existing, the peppermint, ether or smoke test may be substituted by the Municipal Commission or its agent.

(d) The licensed mechanic employed to construct a house drain shall complete his work to the connecting branch of the public sewer, but no connection shall be made with the public sewer except under the immediate supervision of the Municipal Commission or its agent, and only after it or he shall have personally inspected and accepted the house drain and its plumbing connections and been satisfied that all is strictly in accordance with the requirements of this ordinance, and the permission of the Commission for such acceptance shall have been duly issued.

(e) Application for license to do any work under this ordinance shall be made in writing to the Municipal Commission on proper blanks provided for that purpose. Every person, firm or corporation to whom a license is granted shall file a bond to be approved by the said Commission in the sum of \$500, conditioned to save harmless and indemnify the village of Herkimer from all damages arising from making connections with the public sewer, and no person, firm or corporation so licensed shall undertake any house drainage or plumbing work to be connected with the public sewers without first having received a special permit for such work in each case. Application for permits for house drainage and sewer connections must be made in

writing by the owner of the property or his agent, giving the name of the licensed mechanic who is to do the work and request that said mechanic be authorized therefor. Blanks for such application will be furnished.

SECTION IV. Any person who shall allow any surface water or rain water from the ground or roof of houses or buildings to enter any pipe or drain or any vessel or slop stone connected with any pipe or drain connected with the public sewers, or admit any drainage water from any cellar into such pipe or drain without obtaining permission therefor from the Municipal Commission or its agent, or any person violating any of the provisions of Section III. of this ordinance shall be liable upon conviction to pay a fine of not less than \$5, nor more than \$50.

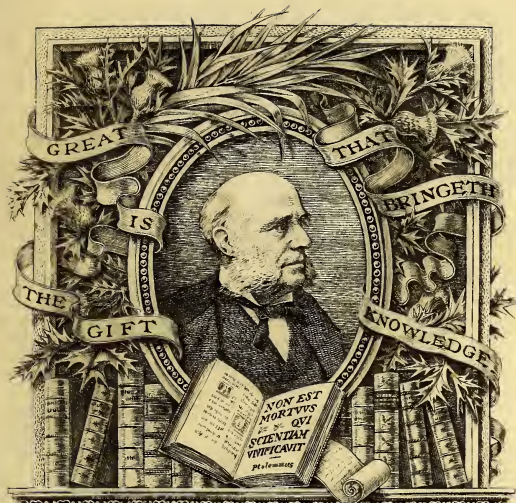
SECTION V. Any person who shall throw or deposit, or cause to be thrown or deposited, in any vessel or receptacle connected with the public sewer any garbage, vegetable parings, ashes, cinders, rags, or other matter or things whatsoever, except faeces, urine, the necessary water closet paper and liquid house slops, or to allow any house drain to be connected with any private vault or cesspool or underground drain, or with any other channel conveying water or filth, excepting the soil pipes and plumbing work of the house or building hereinbefore provided, shall be liable upon conviction thereof to pay a fine of not more than \$50 for each offense.

SECTION VI. It is made the duty of the Municipal Commission to enforce full compliance with the ordinances in relation to the sewers and the connections therewith, and for that purpose they may appoint a suitable person to act as their agent, and any failure of duty on the part of said Commission or its agent shall subject the person in default to all the penalties of this ordinance.

SECTION VII. This ordinance shall take effect and go into operation immediately.



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